



# **Mathematics**

# **Reference Sheet**

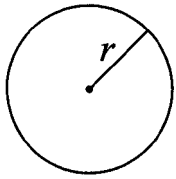
**(Pack of 10)**



M51089229110010

Use the information below to answer questions on the Mathematics test.

## Circle

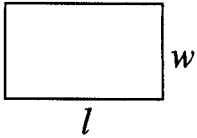


$$\pi \approx 3.14$$

$$\text{Area} = \pi r^2$$

$$\text{Circumference} = 2\pi r$$

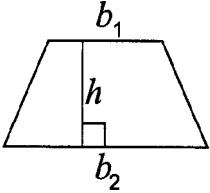
## Rectangle



$$\text{Area} = lw$$

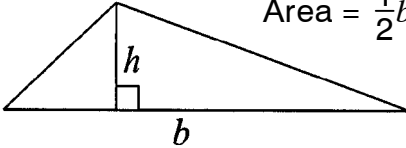
$$\text{Perimeter} = 2l + 2w$$

## Trapezoid



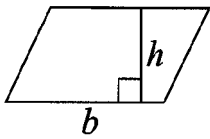
$$\text{Area} = \frac{1}{2}h(b_1 + b_2)$$

## Triangle



$$\text{Area} = \frac{1}{2}bh$$

## Parallelogram



$$\text{Area} = bh$$

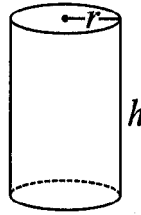
## Metric Units of Length

- 1 kilometer = 1,000 meters
- 1 centimeter = 0.01 meter
- 1 millimeter = 0.001 meter
- 1 micrometer = 0.000001 meter

## U.S. Unit Conversions

- 8 fluid ounces = 1 cup
- 2 cups = 1 pint
- 2 pints = 1 quart
- 4 quarts = 1 gallon
- 16 ounces = 1 pound
- 5,280 feet = 1 mile

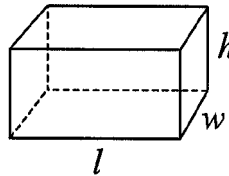
## Cylinder



$$\text{Volume} = \pi r^2 h$$

$$\text{Surface Area} = 2\pi r^2 + 2\pi r h$$

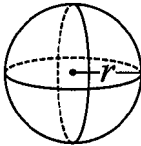
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$$\text{Volume} = lwh$$

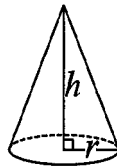
$$\text{Surface Area} = 2wl + 2lh + 2wh$$

## Sphere



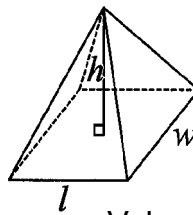
$$\text{Volume} = \frac{4}{3}\pi r^3$$

## Cone



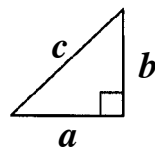
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$$\text{Volume} = \frac{1}{3}lwh$$

## Pythagorean Theorem



$$a^2 + b^2 = c^2$$

## Cartesian Distance Formula

$$AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

(see note below)

## Slope Formula

$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

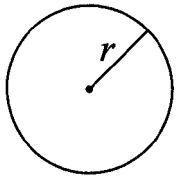
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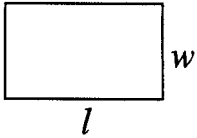


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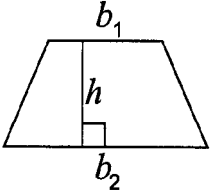
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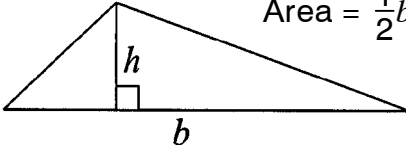
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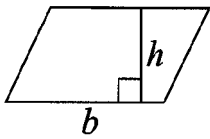
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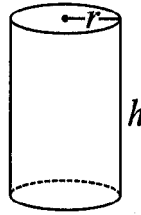
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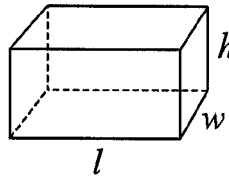
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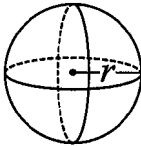
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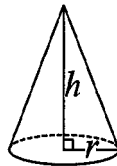
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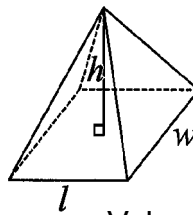
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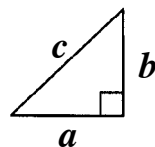
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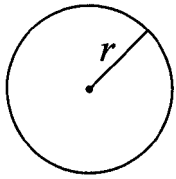
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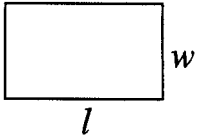
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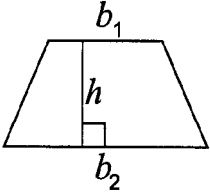
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 Area =  $\pi r^2$   
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## Rectangle



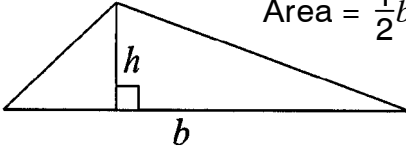
Area =  $lw$   
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## Trapezoid



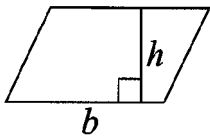
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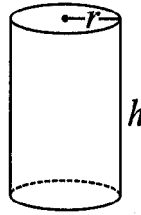
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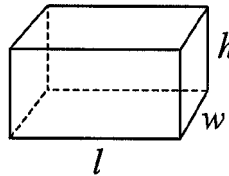
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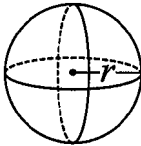
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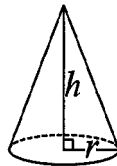
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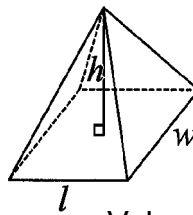
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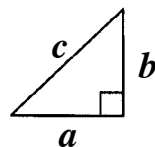
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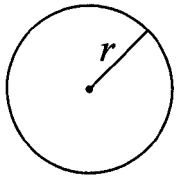
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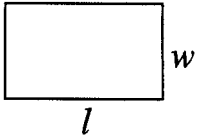
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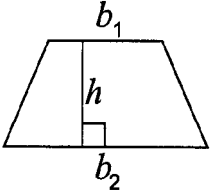
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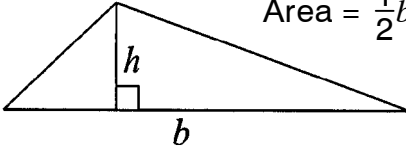
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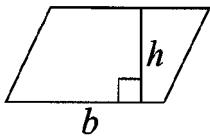
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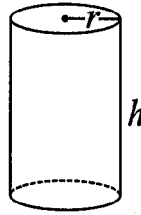
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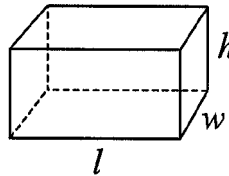
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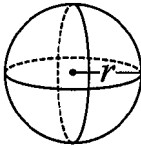
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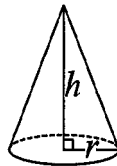
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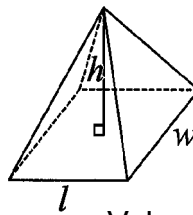
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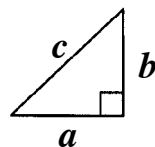
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## Rectangular Pyramid



Volume =  $\frac{1}{3}lwh$

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## Cartesian Distance Formula

$AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$   
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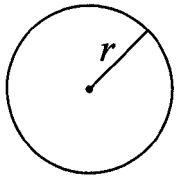
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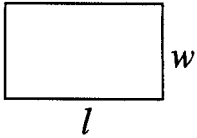
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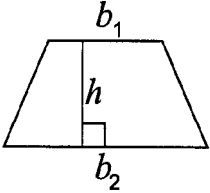
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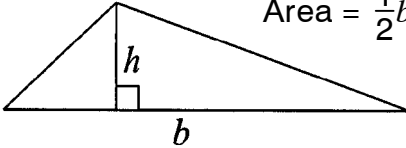
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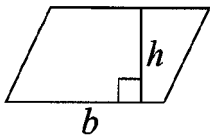
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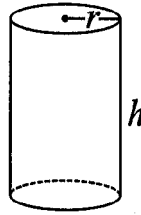
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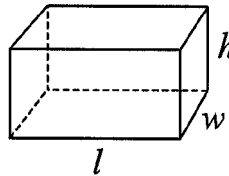
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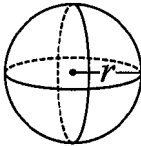
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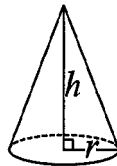
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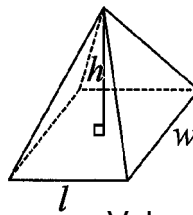
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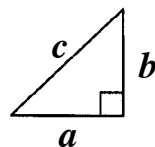
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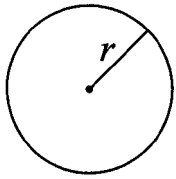
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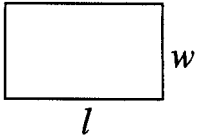
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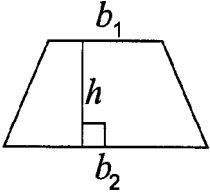
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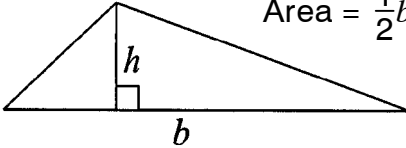
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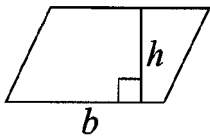
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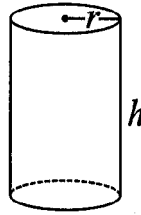
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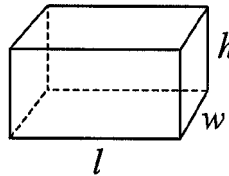
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- 5,280 feet = 1 mile

## Cylinder



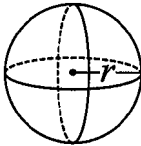
Volume =  $\pi r^2 h$   
 Surface Area =  $2\pi r^2 + 2\pi r h$

## Rectangular Solid



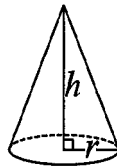
Volume =  $lwh$   
 Surface Area =  $2wl + 2lh + 2wh$

## Sphere



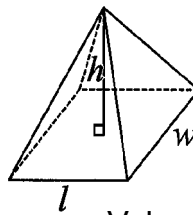
Volume =  $\frac{4}{3}\pi r^3$

## Cone



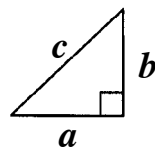
Volume =  $\frac{1}{3}\pi r^2 h$

## Rectangular Pyramid



Volume =  $\frac{1}{3}lwh$

## Pythagorean Theorem



$a^2 + b^2 = c^2$

## Cartesian Distance Formula

$AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$   
 (see note below)

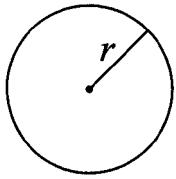
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slope =  $\frac{y_2 - y_1}{x_2 - x_1}$   
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**NOTE:** Point A:  $(x_1, y_1)$   
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Use the information below to answer questions on the Mathematics test.

## Circle

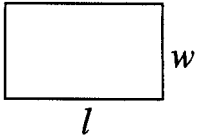


$$\pi \approx 3.14$$

$$\text{Area} = \pi r^2$$

$$\text{Circumference} = 2\pi r$$

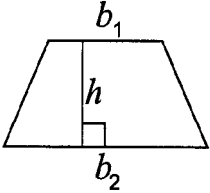
## Rectangle



$$\text{Area} = lw$$

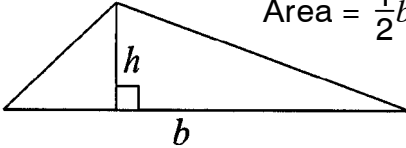
$$\text{Perimeter} = 2l + 2w$$

## Trapezoid



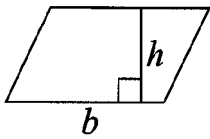
$$\text{Area} = \frac{1}{2}h(b_1 + b_2)$$

## Triangle



$$\text{Area} = \frac{1}{2}bh$$

## Parallelogram



$$\text{Area} = bh$$

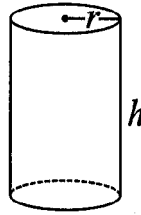
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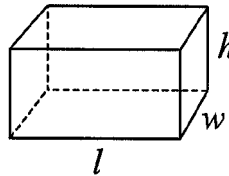
## Cylinder



$$\text{Volume} = \pi r^2 h$$

$$\text{Surface Area} = 2\pi r^2 + 2\pi r h$$

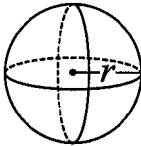
## Rectangular Solid



$$\text{Volume} = lwh$$

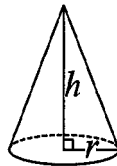
$$\text{Surface Area} = 2wl + 2lh + 2wh$$

## Sphere



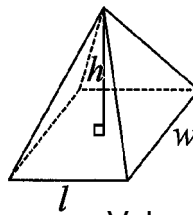
$$\text{Volume} = \frac{4}{3}\pi r^3$$

## Cone



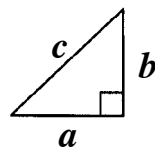
$$\text{Volume} = \frac{1}{3}\pi r^2 h$$

## Rectangular Pyramid



$$\text{Volume} = \frac{1}{3}lwh$$

## Pythagorean Theorem



$$a^2 + b^2 = c^2$$

## Cartesian Distance Formula

$$AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

(see note below)

## Slope Formula

$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

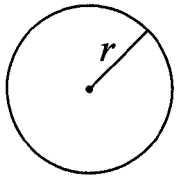
(see note below)

**NOTE:** Point A:  $(x_1, y_1)$

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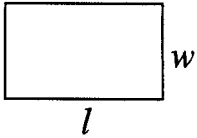
Use the information below to answer questions on the Mathematics test.

## Circle



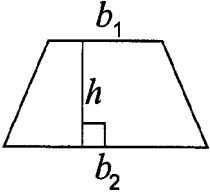
$\pi \approx 3.14$   
 Area =  $\pi r^2$   
 Circumference =  $2\pi r$

## Rectangle



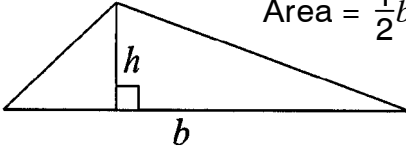
Area =  $lw$   
 Perimeter =  $2l + 2w$

## Trapezoid



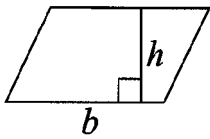
Area =  $\frac{1}{2}h(b_1 + b_2)$

## Triangle



Area =  $\frac{1}{2}bh$

## Parallelogram



Area =  $bh$

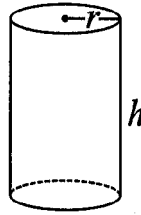
## Metric Units of Length

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## U.S. Unit Conversions

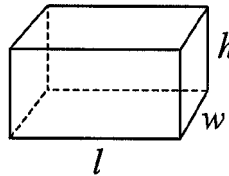
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## Cylinder



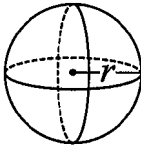
Volume =  $\pi r^2 h$   
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## Rectangular Solid



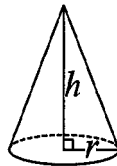
Volume =  $lwh$   
 Surface Area =  $2wl + 2lh + 2wh$

## Sphere



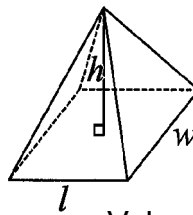
Volume =  $\frac{4}{3}\pi r^3$

## Cone



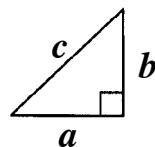
Volume =  $\frac{1}{3}\pi r^2 h$

## Rectangular Pyramid



Volume =  $\frac{1}{3}lwh$

## Pythagorean Theorem



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## Cartesian Distance Formula

$AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$   
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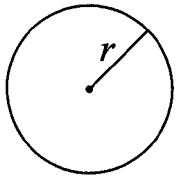
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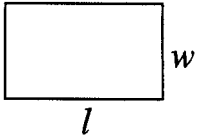
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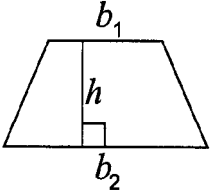
$\pi \approx 3.14$   
 Area =  $\pi r^2$   
 Circumference =  $2\pi r$

## Rectangle



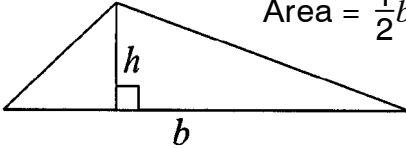
Area =  $lw$   
 Perimeter =  $2l + 2w$

## Trapezoid



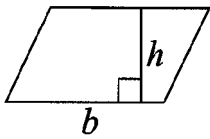
Area =  $\frac{1}{2}h(b_1 + b_2)$

## Triangle



Area =  $\frac{1}{2}bh$

## Parallelogram



Area =  $bh$

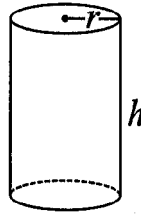
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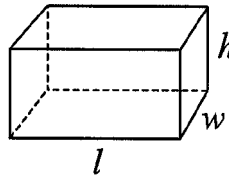
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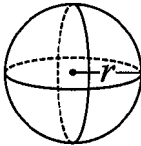
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## Rectangular Solid



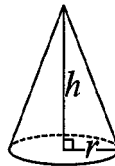
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## Sphere



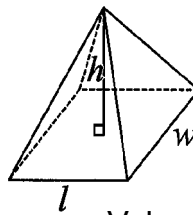
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## Cone



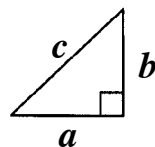
Volume =  $\frac{1}{3}\pi r^2 h$

## Rectangular Pyramid



Volume =  $\frac{1}{3}lwh$

## Pythagorean Theorem



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## Cartesian Distance Formula

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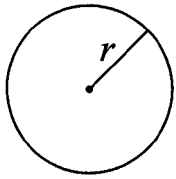
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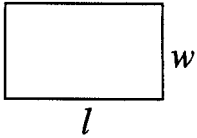
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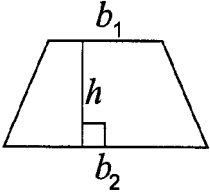
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 Area =  $\pi r^2$   
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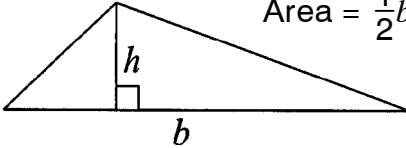
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## Trapezoid



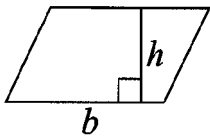
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Area =  $\frac{1}{2}bh$

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Area =  $bh$

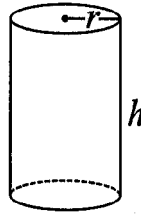
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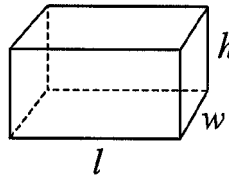
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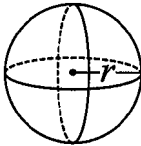
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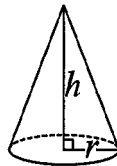
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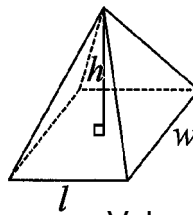
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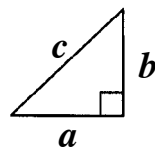
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Volume =  $\frac{1}{3}lwh$

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