Math High School Reference Sheet

1 foot = 12 inches

1 yard = 3 feet

1 mile = 1,760 yards

1 mile = 5,280 feet

1 mile ≈ 1.609 kilometers

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1 inch = 2.54 centimeters

1 kilometer ≈ 0.62 mile

1 meter ≈ 39.37 inches

1 pound = 16 ounces

1 pound ≈ 0.454 kilograms

1 kilogram ≈ 2.2 pounds

1 cup = 8 fluid ounces

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

1 gallon ≈ 3.785 liters

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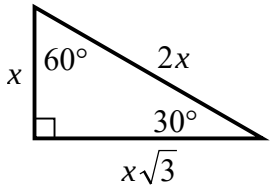
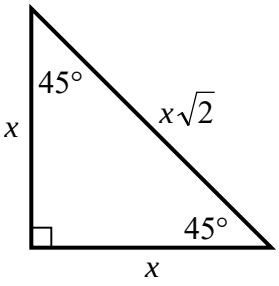
1 liter ≈ 0.264 gallons

1 liter = 1000 cubic centimeters

Trigonometry		
$\sin A = \frac{\text{opposite}}{\text{hypotenuse}}$		
$\cos A = \frac{\text{adjacent}}{\text{hypotenuse}}$		
$\tan A = \frac{\text{opposite}}{\text{adjacent}}$		

Key			
b = base	B = area of base	h = height	r = radius

Triangle	$A = \frac{1}{2}bh$
Parallelogram	$A = bh$
Circle	$C = 2\pi r$ $A = \pi r^2$

General Prisms	$V = Bh$
Cylinder	$V = \pi r^2 h$
Sphere	$V = \frac{4}{3}\pi r^3$
Cone	$V = \frac{1}{3}\pi r^2 h$
Pyramid	$V = \frac{1}{3}Bh$

Distance Formula	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Quadratic Formula	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Addition Rule	P (A or B) = P (A) + P (B) − P (A and B)