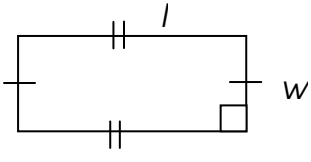
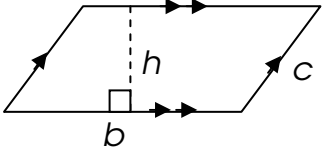
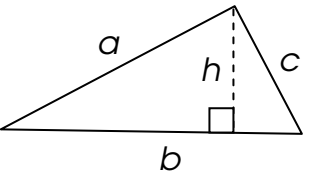
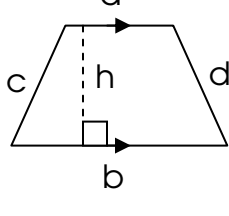
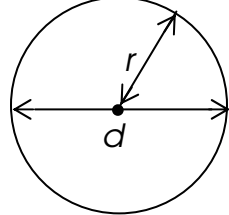


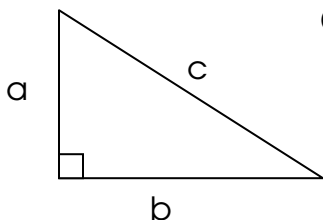
Formula Sheet: MFM 2P

Geometric Shape	Perimeter	Area
	$P = 2(l + w)$ or $P = 2l + 2w$	$A = lw$
	$P = 2(b + c)$ or $P = 2b + 2c$	$A = bh$
	$P = a + b + c$	$A = \frac{bh}{2}$ or $A = \frac{1}{2}bh$
	$P = a + b + c + d$	$A = \frac{(a + b)h}{2}$ or $A = \frac{1}{2}(a + b)h$
	$C = \pi d$ or $C = 2\pi r$	$A = \pi r^2$

CONVERSIONS

Imperial	Metric	Imperial \leftrightarrow Metric
12 inches = 1 foot	10 mm = 1 cm	1 inch \approx 2.54 cm
3 feet = 1 yard	100 cm = 1 m	1 foot \approx 0.3048 m
1 760 yards = 1 mile	1 000 m = 1 km	1 sq. ft. \approx 0.0929 m ²
		1 cu. ft. \approx 0.0283 m ³

Other Useful Formulas



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

$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

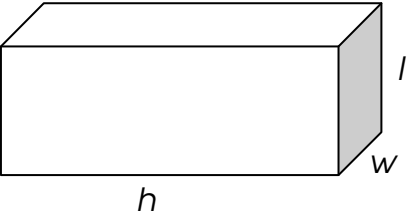
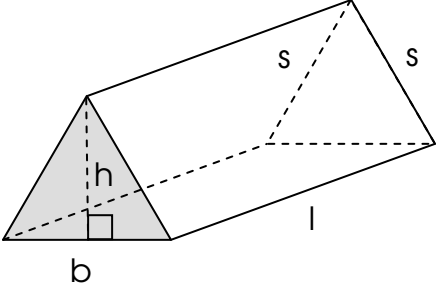
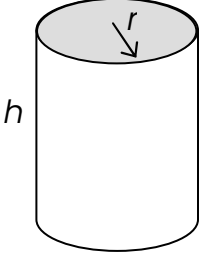
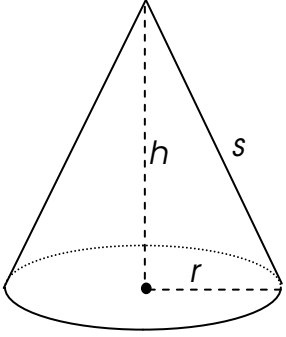
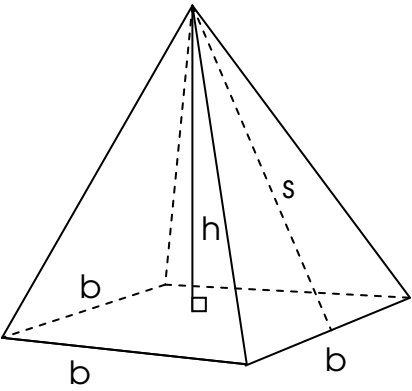
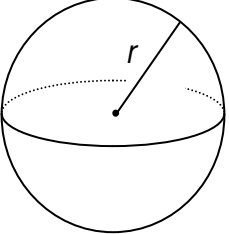
$$y = mx + b$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{\text{rise}}{\text{run}}$$

$$y = ax^2 + bx + c$$

Formula Sheet: MFM 2P

Geometric Shape	Surface Area	Volume
	SA= sum of area of all surfaces $SA = 2(lw + wh + hl)$	$V = Area_{base} \times height_{prism}$ $V = lwh$
	SA= sum of area of all surfaces $SA = bh + bl + 2sl$	$V = Area_{base} \times height_{prism}$ $V = \frac{bhl}{2}$
	SA= sum of area of all surfaces $SA = 2\pi r^2 + 2\pi rh$	$V = Area_{base} \times height_{prism}$ $V = \pi r^2 h$
		$V = \frac{1}{3} Area_{base} \times height$ $V = \frac{1}{3} \pi r^2 h \text{ or } V = \frac{\pi r^2 h}{3}$
	SA= sum of area of all surfaces $SA = b^2 + 2bs$	$V = \frac{1}{3} Area_{base} \times height$ $V = \frac{1}{3} b^2 h \text{ or } V = \frac{b^2 h}{3}$
	SA= sum of area of all surfaces $SA = 4\pi r^2$	$V = \frac{4}{3} \pi r^3$