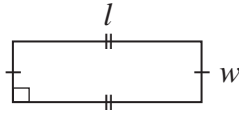


SENIOR 1 MATHEMATICS FORMULA SHEET

Geometry

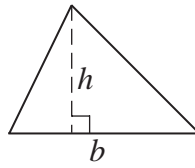
rectangle



$$A = lw$$

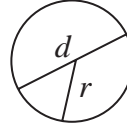
$$P = 2l + 2w$$

triangle



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

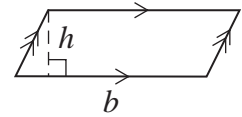
circle



$$A = \pi r^2$$

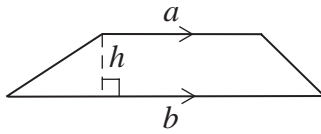
$$C = 2\pi r \quad C = \pi d$$

parallelogram



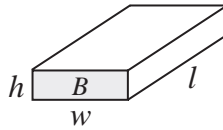
$$A = bh$$

trapezoid



$$A = \frac{1}{2}(a+b)h$$

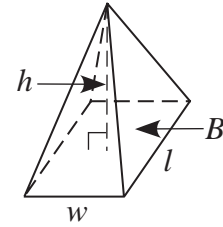
prism



$$V = Bh$$

where B = area of base

pyramid



$$V = \frac{1}{3}Bh$$

where B = area of base

Simple Interest

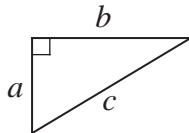
Interest = Principal \times Rate \times Time

$$P = \frac{I}{RT}$$

$$R = \frac{I}{PT}$$

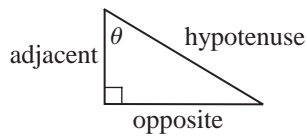
$$T = \frac{I}{PR}$$

Pythagorean Theorem



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

Trigonometry



$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

Algebra Models



$$= +1$$



$$= -1$$



$$= x$$



$$= -x$$



$$= x^2$$



$$= -x^2$$

