

Engineering Formula Sheet

Circular Shapes

Formulas	Variables
$C = \pi * d$	C = Circumference $\pi = 3.14$ d = Diameter
$A = \pi * r^2$	A = Area r = Radius

Electrical Systems

Formulas	Variables
$V = IR$	V = Voltage I = Current R = Resistance

Right Triangle Ratios

Formulas	Variables
$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$	$\theta = \text{Angle}$
$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$	
$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$	

Simple Machines

Formulas	Variables
$AMA = \frac{F_R}{F_E}$	AMA = Actual Mechanical Advantage F_R = Resistance force F_E = Effort force
$IMA = \frac{D_E}{D_R}$	IMA = Ideal Mechanical Advantage D_R = Resistance Distance D_E = Effort Distance
Lever IMA = $\frac{LE}{LR}$	LE = Length from fulcrum to effort LR = Length from fulcrum to resistance
Wheel and Axle IMA = $\frac{r_w}{r_a}$	r_w = Wheel radius r_a = Axle radius
Pulley IMA = Total number of strands supporting the load	
Inclined Plane MA = $\frac{L}{H}$	L = Slope length H = Height
Wedge IMA = $\frac{L}{H}$	L = Base length H = Height
Screw IMA = $\frac{C}{\text{Pitch}}$	C = Circumference Pitch = Screw pitch TPI = Threads per inch
Pitch = $\frac{1}{\text{TPI}}$	

Engineering Formulas

Jicheng Xie



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