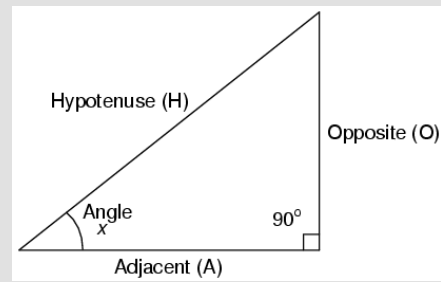


### CONVERSION FACTORS

UNIT	CONVERSION
1 Foot (ft)	0.3048 Meters (m)
1 Meter (m)	3.281 Feet (ft)
1 Cubic Yard (Cy) (yd <sup>3</sup> )	27 Cubic Feet (cf) (ft <sup>3</sup> )
1 Cubic Feet (cf)(ft <sup>3</sup> )	7.481 Gallons (gal)
1 Kip (K)	1 Pound-Feet (Lb•Ft)
1 Kip (K)	4448 Newtons (N)
1000 Newtons (N)	1 Kilonewton (kN)
1 Ton	1000 Kilograms (kg)
1 Ton	2000 Pounds (lb)
1 Inch (in)	2.54 Centimeters (cm)
1 Centimeter (cm)	10 Millimeters (mm)
1 Pound-Inch <sup>2</sup> (psi)	6895 Pascals (Pa)
1000 Pound-Inch <sup>2</sup> (psi)	1 Kilopounds-Inch <sup>2</sup> (ksi)

### TRIGONOMETRY



$\text{Sin}X = O/H$	$\text{Csc}X = H/O$
$\text{Cos}X = A/H$	$\text{Sec}X = H/A$
$\text{Tan}X = O/A$	$\text{Cot}X = A/O$

### TRIGONOMETRIC LAWS

LAW OF SINES

LAW OF COSINES



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