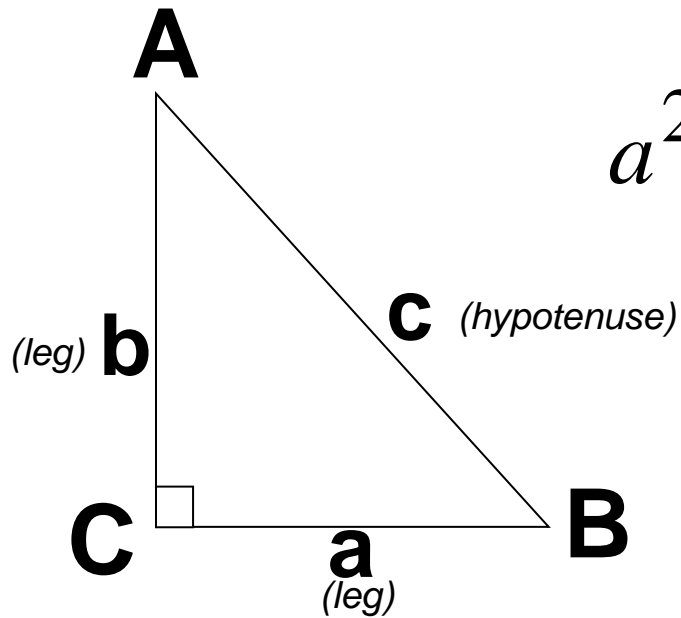


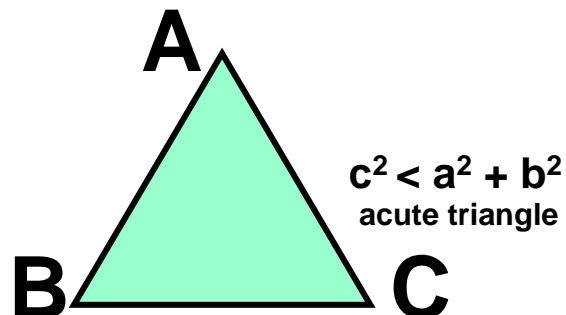
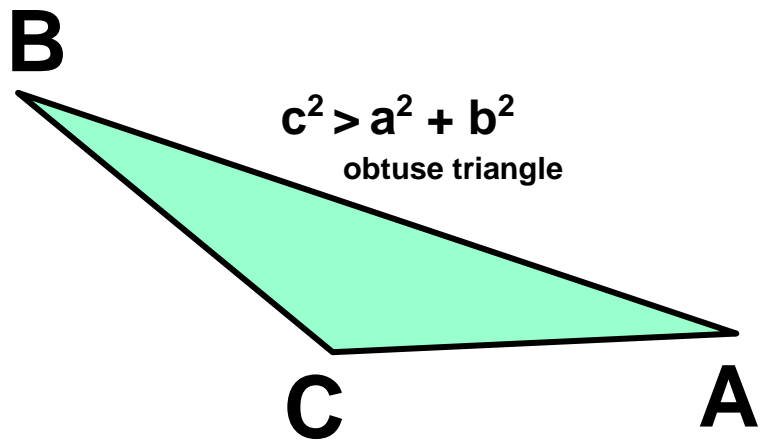
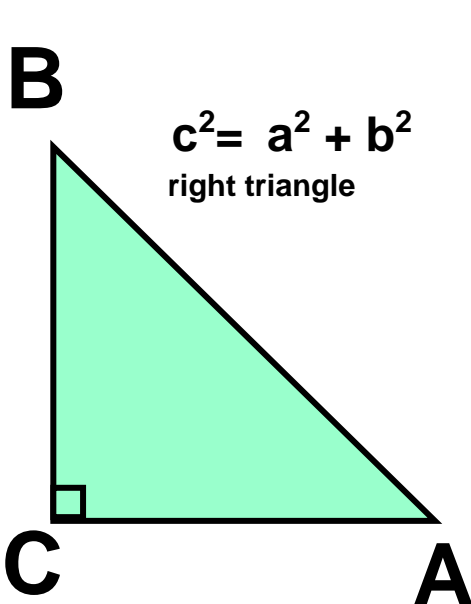
FACTS for Unit #8

Pythagorean Theorem:

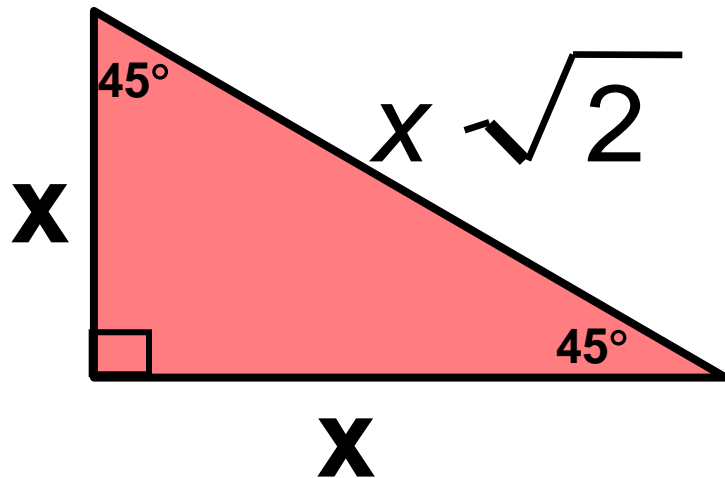
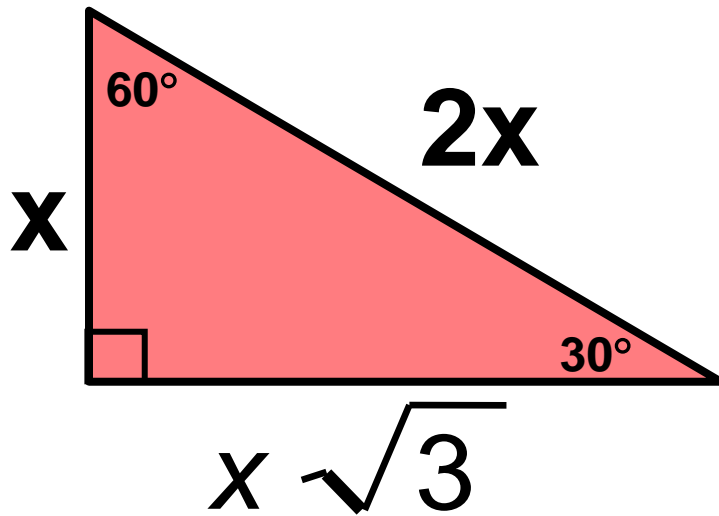


$$a^2 + b^2 = c^2$$

What kind of triangle? (where “c” is the longest side)



Special Triangles



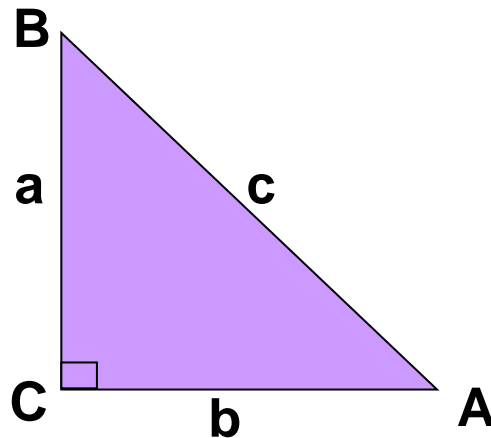
Converting between degrees and radians

Conversion Formulas	
1 degree = $\frac{\pi}{180}$ radian	1 radian = $\frac{180}{\pi}$ degrees

Trigonometric Ratios

Caution!

Be sure your calculator is in degree mode, not radian mode.



$$\sin A = \frac{\text{side opposite of } \angle A}{\text{hypotenuse}} \quad \frac{a}{c}$$

$$\cos A = \frac{\text{side adjacent of } \angle A}{\text{hypotenuse}} \quad \frac{b}{c}$$

$$\tan A = \frac{\text{side opposite of } \angle A}{\text{side adjacent of } \angle A} \quad \frac{a}{b}$$

SOH- CAH-TOA