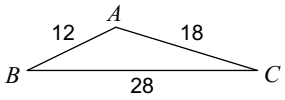
Precalculus Name_____



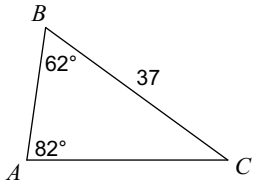
# Law of Sines and Cosines Quiz

**Find each measurement indicated. Round to the nearest tenth.**

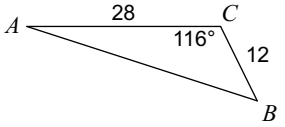
1) Find $m\angle C$



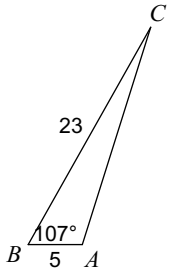

2) Find AC



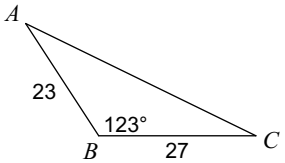

3) Find $m\angle A$




4) Find $m\angle C$




5) Find AC



**Solve each triangle. If there is more than one triangle solve for both. Round your answers to the nearest tenth.**

6) $m\angle C = 95°, b = 29, c = 21$

7) $m\angle C = 70°,\ a = 28,\ b = 26$

8) $m\angle B = 22°, a = 30, b = 24$

9) $b = 17,\ a = 15,\ c = 28$

**Find the area of each triangle to the nearest tenth.**

10) $b = 11.6$ m, $a = 10$ m, $m\angle B = 32°$

11) $b = 6$ in, $a = 14$ in, $c = 11$ in

12) $a = 15,\ b = 14,\ m\angle C = 124°$

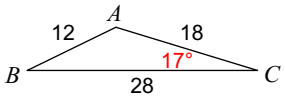
Precalculus Name_____



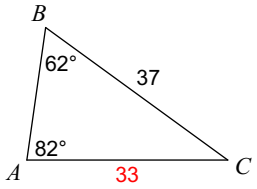
# Law of Sines and Cosines Quiz

**Find each measurement indicated. Round to the nearest tenth.**

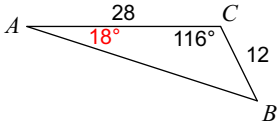
1) Find $m\angle C$



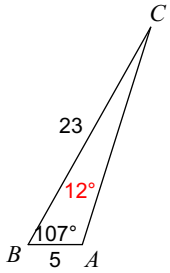

2) Find AC



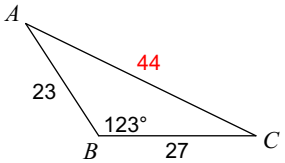

3) Find $m\angle A$




4) Find $m\angle C$




5) Find AC



**Solve each triangle. If there is more than one triangle solve for both. Round your answers to the nearest tenth.**

6) $m\angle C = 95°,\ b = 29,\ c = 21$

Not a triangle

7) $m\angle C = 70°,\ a = 28,\ b = 26$

$m\angle A = 58°,\ m\angle B = 52°,\ c = 31$

8) $m\angle B = 22°,\ a = 30,\ b = 24$

$m\angle C = 130.1°,\ m\angle A = 27.9°,\ c = 49$
*Or* $m\angle C = 5.9°,\ m\angle A = 152.1°,\ c = 6.6$

9) $b = 17,\ a = 15,\ c = 28$

$m\angle B = 31°,\ m\angle C = 122°,\ m\angle A = 27°$

**Find the area of each triangle to the nearest tenth.**

10) $b = 11.6$ m, $a = 10$ m, $m\angle B = 32°$

49.8 m²

11) $b = 6$ in, $a = 14$ in, $c = 11$ in

31.5 in²

12) $a = 15,\ b = 14,\ m\angle C = 124°$

87 units²