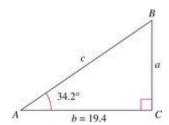
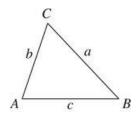
Law of Sines (Section 6.1)

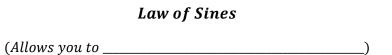
Warm-up: Solve the following triangle.



Law of Sines

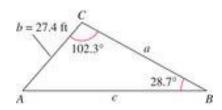
Consider the following oblique triangle: Oblique Triangle = _____





$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

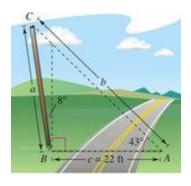
Example 1: Solve the triangle.



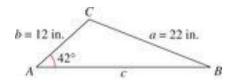
Practice Problem 1: Solve triangle ABC: $A = 30^{\circ}$, $B = 45^{\circ}$, and a = 32 feet.

Law of Sines (Section 6.1)

Example 2: A pole tilts toward the sun at an 8° angle from the vertical, and it casts a 22-foot shadow. The angle of elevation from the tip of the shadow to the top of the pole is 43°. How tall is the pole?



Example 3: Solve the triangle.



Example 4: Solve the triangle.

$$a = 15$$
, $b = 25$, and $A = 85^{\circ}$

Example 5: Solve the triangle.