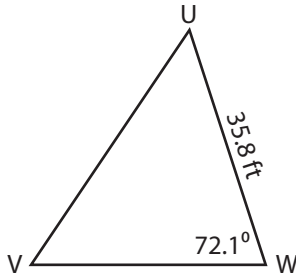


Name : \_\_\_\_\_

## Solving Triangles

Solve each triangle from the given measurements. Round your answer to the nearest tenth.

1) Area =  $579.14 \text{ ft}^2$



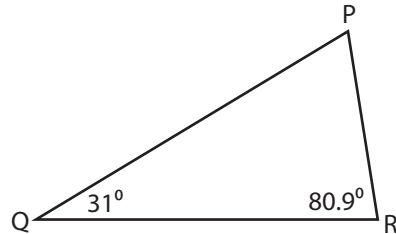
$m\angle U =$  \_\_\_\_\_

$m\angle V =$  \_\_\_\_\_

$u =$  \_\_\_\_\_

$w =$  \_\_\_\_\_

2) Area =  $951.03 \text{ in}^2$



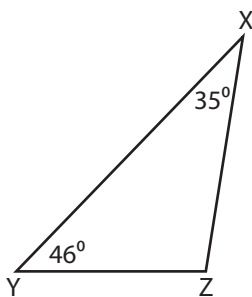
$m\angle P =$  \_\_\_\_\_

$p =$  \_\_\_\_\_

$q =$  \_\_\_\_\_

$r =$  \_\_\_\_\_

3) Area =  $228.2 \text{ yd}^2$



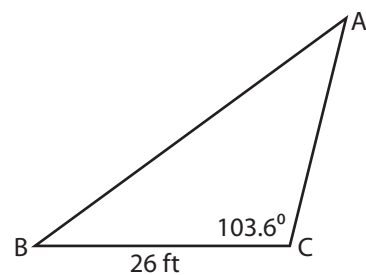
$m\angle Z =$  \_\_\_\_\_

$x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_

$z =$  \_\_\_\_\_

4) Area =  $303.17 \text{ ft}^2$



$m\angle A =$  \_\_\_\_\_

$m\angle B =$  \_\_\_\_\_

$b =$  \_\_\_\_\_

$c =$  \_\_\_\_\_

Name : \_\_\_\_\_

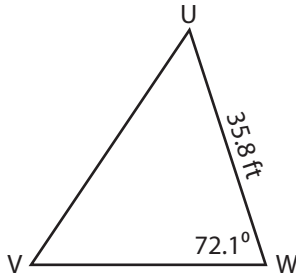
## Answer key

Sheet 1

# Solving Triangles

Solve each triangle from the given measurements. Round your answer to the nearest tenth.

1) Area = 579.14 ft<sup>2</sup>



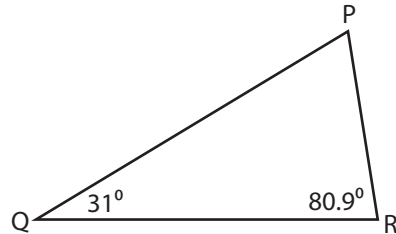
$m\angle U = \underline{\hspace{2cm} 51.9^\circ \hspace{2cm}}$

$m\angle V = \underline{\hspace{2cm} 56^\circ \hspace{2cm}}$

$u = \underline{\hspace{2cm} 34 \text{ ft} \hspace{2cm}}$

$w = \underline{\hspace{2cm} 41.1 \text{ ft} \hspace{2cm}}$

2) Area = 951.03 in<sup>2</sup>



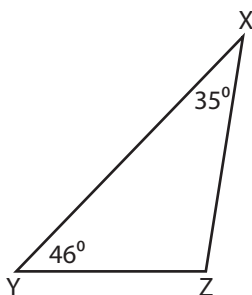
$m\angle P = \underline{\hspace{2cm} 68.1^\circ \hspace{2cm}}$

$p = \underline{\hspace{2cm} 58.9 \text{ in} \hspace{2cm}}$

$q = \underline{\hspace{2cm} 32.7 \text{ in} \hspace{2cm}}$

$r = \underline{\hspace{2cm} 62.7 \text{ in} \hspace{2cm}}$

3) Area = 228.2 yd<sup>2</sup>



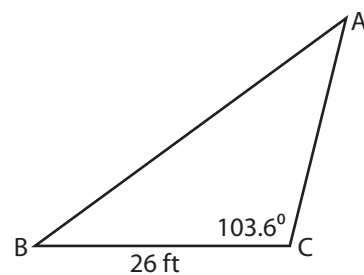
$m\angle Z = \underline{\hspace{2cm} 99^\circ \hspace{2cm}}$

$x = \underline{\hspace{2cm} 19.2 \text{ yd} \hspace{2cm}}$

$y = \underline{\hspace{2cm} 24.1 \text{ yd} \hspace{2cm}}$

$z = \underline{\hspace{2cm} 33.1 \text{ yd} \hspace{2cm}}$

4) Area = 303.17 ft<sup>2</sup>



$m\angle A = \underline{\hspace{2cm} 40^\circ \hspace{2cm}}$

$m\angle B = \underline{\hspace{2cm} 36.4^\circ \hspace{2cm}}$

$b = \underline{\hspace{2cm} 24 \text{ ft} \hspace{2cm}}$

$c = \underline{\hspace{2cm} 39.3 \text{ ft} \hspace{2cm}}$