

Name : _____

T2S3

Solving Triangles

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

1) $m\angle S = 59^\circ$, $m\angle T = 48^\circ$, $u = 42$ in

2) $m\angle Y = 77^\circ$, $x = 20$ ft, $y = 24$ ft

$m\angle U =$ _____

$s =$ _____

$t =$ _____

3) $m\angle P = 61^\circ$, $m\angle C =$ _____

$b = 30$ yd, $c = 30.8$ yd

$m\angle R =$ _____

$q =$ _____

$m\angle C =$ _____

$r =$ _____

$a =$ _____

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Answer key

T2S3

Solving Triangles

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

1) $m\angle S = 59^\circ$, $m\angle T = 48^\circ$, $u = 42$ in

2) $m\angle Y = 77^\circ$, $x = 20$ ft, $y = 24$ ft

$m\angle U =$ _____

54.3°

$s =$ _____

48.7°

$t =$ _____

18.5 ft

3) $m\angle P = 61^\circ$, $m\angle C =$ _____

$b = 30$ yd, $c = 30.8$ yd

$m\angle R =$ _____

39.8°

$q =$ **10.8 in**

$m\angle C =$ **72.2°**

$r =$ **12.6 in**

$a =$ **20.7 yd**

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