

Name : _____

Solving Triangles

T2S1

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

1) $m\angle Y = 51^\circ, m\angle Z = 48^\circ, x = 28$ ft

2) $m\angle P = 45^\circ, p = 5.6$ yd, $q = 7$ yd

$m\angle X =$ _____

$y =$ _____

$z =$ _____

3) $m\angle C = 55^\circ, b = 4$

$v = 43^\circ, u = 45$ ft

$m\angle A =$ _____

$m\angle B =$ _____

$a =$ _____

$t =$ _____

$v =$ _____

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Name : _____

Answer key

T2S1

Solving Triangles

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

1) $m\angle Y = 51^\circ, m\angle Z = 48^\circ, x = 28$ ft

2) $m\angle P = 45^\circ, p = 5.6$ yd, $q = 7$ yd

$m\angle X =$ _____

_____ **62.1°**

$y =$ _____

_____ **72.9°**

$z =$ _____

_____ **7.6 yd**

3) $m\angle C = 55^\circ, b = 4$

$v = 43^\circ, u = 45$ ft

$m\angle A =$ _____

_____ **63°**

$m\angle B =$ _____

_____ **48.7°**

$t =$ _____

_____ **41.7 ft**

$a =$ _____

_____ **56.9 in**

$v =$ _____

_____ **31.9 ft**

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