

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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## 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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