

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

## Solving Triangles

T2S1

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

1)  $a = 9$  in,  $b = 8$  in,  $c = 16$  in

2)  $m\angle F = 89.3^\circ$ ,  $g = 67$  ft,  $h = 21$  ft

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

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

$m\angle C =$  \_\_\_\_\_

3)  $m\angle Y = 96.3^\circ$ ,  $x =$  \_\_\_\_\_

in,  $r = 22$  in

$m\angle X =$  \_\_\_\_\_

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

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

$m\angle Q =$  \_\_\_\_\_

$m\angle R =$  \_\_\_\_\_

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## Answer key

T2S1

### Solving Triangles

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

1)  $a = 9$  in,  $b = 8$  in,  $c = 16$  in

2)  $m\angle F = 89.3^\circ$ ,  $g = 67$  ft,  $h = 21$  ft

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

**$73.2^\circ$**

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

**$17.5^\circ$**

$m\angle C =$  \_\_\_\_\_

**70 ft**

3)  $m\angle Y = 96.3^\circ$ ,  $x =$  \_\_\_\_\_

in,  $r = 22$  in

$m\angle X =$  \_\_\_\_\_

**$35.3^\circ$**

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

**$32.9^\circ$**

$m\angle Q =$  \_\_\_\_\_

**$22.7^\circ$**

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

**14.1 yd**

$m\angle R =$  \_\_\_\_\_

**$122^\circ$**

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