

Name : _____

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

$m\angle A =$ _____

$m\angle B =$ _____

$m\angle C =$ _____

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

in, $r = 22$ in

$m\angle X =$ _____

$m\angle P =$ _____

$m\angle Z =$ _____

$m\angle Q =$ _____

$y =$ _____

$m\angle R =$ _____

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

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

$m\angle A =$ _____

PREVIEW

_____ **73.2°**

$m\angle B =$ _____

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_____ **17.5°**

$m\angle C =$ _____

_____ **70 ft**

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

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_____ in, $r = 22$ in

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$m\angle X =$ _____ **50.8°**

$m\angle P =$ _____ **35.3°**

$m\angle Z =$ _____ **32.9°**

$m\angle Q =$ _____ **22.7°**

$y =$ _____ **14.1 yd**

$m\angle R =$ _____ **122°**