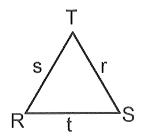
Law of Cosines ID Practice

Directions: Round to the nearest tenth if needed

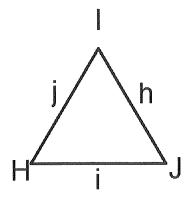
In $\triangle RST$, given the following measures, find the measure of the missing side.

1.
$$r = 5$$
, $s = 8$, $m \angle T = 39$



In $\triangle HIJ$, given the lengths of the sides, find the measure of the stated angle to the nearest tenth.

2.
$$h = 12, i = 18, j = 7; m \angle H$$

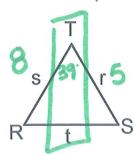


Law of Cosines ID Practice

Directions: Round to the nearest tenth if needed

In $\triangle RST$, given the following measures, find the measure of the missing side.

$$1. r = 5, s = 8, m \angle T = 39$$



$$t^2 = 26.828$$

In $\triangle HIJ$, given the lengths of the sides, find the measure of the stated angle to the nearest tenth.

2.
$$h = 12, i = 18, j = 7; m \angle H$$

$$12^{2} = 7^{2} + 18^{2} - 2 \cdot 7 \cdot 18 \cdot COSH$$

$$14H = 3 \cdot 73 - 252 \cdot COSH$$

$$-229 = -252 \cdot COSH$$

$$10SH = -229$$

$$-252$$

$$\angle H = (65^{-1}(\frac{-229}{-252})$$

$$(m < H = 24.7°)$$