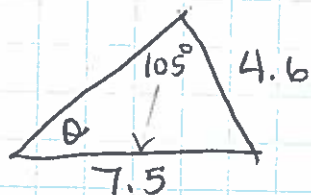


Skill Reflection #2

1.



$$\frac{\sin 105^\circ}{7.5} = \frac{\sin \theta}{4.6}$$

$$\sin \theta = 0.59243$$

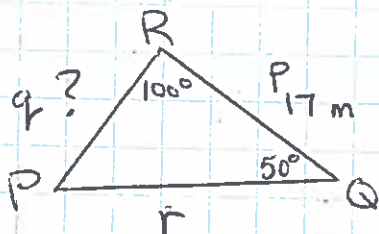
note: cannot be ambiguous
(given angle is obtuse, $4.6 < 7.5$).

$$\theta = 36.329$$

$$\theta \doteq 36^\circ$$

(C)

2.



$$\angle P = 30^\circ \text{ (ASTT)}$$

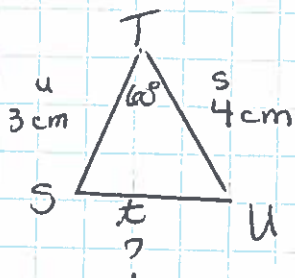
$$\frac{q}{\sin 50^\circ} = \frac{17}{\sin 30^\circ}$$

$$q = 26.045$$

$$q \doteq 26.0 \text{ m.}$$

(D)

3.



* given 2 sides + contained angle
↳ use cosine law.

$$t = \sqrt{s^2 + u^2 - 2su \cos T}$$

$$t \doteq 3.6 \text{ cm}$$

(B)

4.

Given 3 sides \Rightarrow cosine law.

$$\cos B = \frac{a^2 + c^2 - b^2}{2ac}$$

$$= \frac{58^2 + 62^2 - 46^2}{2(58)(62)}$$

$$= \frac{5092}{7192}$$

$$B = 44.9^\circ$$

$$B \doteq 45^\circ$$

(A)

5.

largest angle is across from largest side
smallest angle is across from smallest side
etc.

So, B is largest angle, T is smallest

(C)