

$$0.5 \times 0.5 \times 0.5$$

$$\frac{3.6}{\sqrt{5}} = 6$$

$$2 \frac{\times 3}{\times} = 6 \times$$

$$\frac{3-45}{5-45}$$

$$\frac{3-6}{5-45}$$

$$\frac{1-x}{2-x}$$

a) 36 b) 20 c) 6 d) 9.9

a) 0.3 b)
$$\frac{1}{3}$$
 c) 0.6 d) 30

 $12(3) = m$
 $10 = \frac{3}{3}$

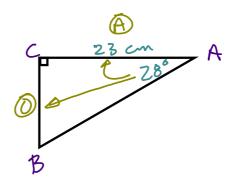
$$12(3) = m$$

2.2 Finding Lengths with Tangent

ex. Find the length of BC to the nearest tenth of a unit.

ton
$$28^{8} = \frac{OPP}{23}$$

 $23 \tan 28^{9} = OPP$
 $12.2 = OPP$
 $BC = 12.2$

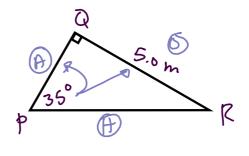


ex. Find the length of \overline{PQ} to the nearest tenth of a unit.

$$\tan 35^{\circ} = \frac{5}{PQ}$$

$$PQ = \frac{5}{\tan 35^{\circ}}$$

$$PQ = 7.1 \text{ cm}$$



ex. A rope supports a vertical tent pole. The rope forms a 33° with the ground. Rope is staked into the ground 10 m from the base of the tent pole. Find height BC to the nearest tenth of a meter.

$$tan \Delta A = \frac{\delta pp}{\delta dy}$$
 $tan 33 = BC$

10 tan 33 = BC 6. length BC is
BC = 6.5 M about 65 m

2.3 Measuring Heights indirectly

* A clinometer is a tool that measures angles of elevation and angles of depression

down from the horizontal

ex. Find the height of the tree (or any other object) h = ? 1.5 m 1.5