

Math 10W – Unit 5 – Assessment Quiz #2

Name _____

TA: _____

1) Determine the value of the following, and **round** to 4 decimal places.

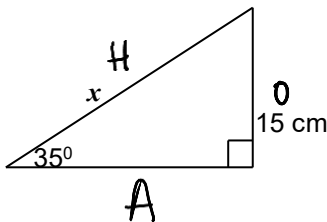
a) $\sin 12^\circ = \underline{0.2079}$

b) $\tan 67^\circ = \underline{2.3559}$

c) $\cos 39^\circ = \underline{0.7771}$

2) Calculate the length of the side indicated in the following diagrams. Round your answer to **one** decimal place. SHOW YOUR WORK!

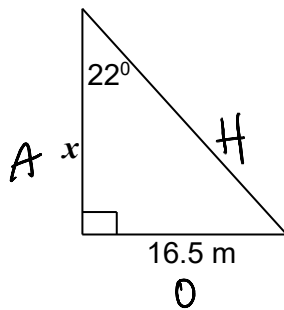
a)



$$\sin \theta = \frac{O}{H}$$
$$\sin 35^\circ = \frac{15}{x}$$
$$x = \frac{15}{\sin 35^\circ}$$

$$x = 26.2\text{ cm}$$

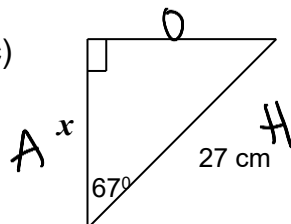
b)



$$\tan \theta = \frac{O}{A}$$
$$\tan 22^\circ = \frac{16.5}{x}$$
$$x = \frac{16.5}{\tan 22}$$

$$x = 40.8\text{ m}$$

c)



$$\cos \theta = \frac{A}{H}$$
$$\cos 67^\circ = \frac{x}{27}$$
$$x = 27 \cos 67^\circ$$

$$x = 10.5\text{ cm}$$