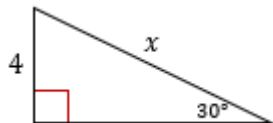
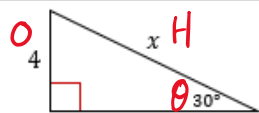


a) Find the length labelled x .



Which trigonometric ratio are we using?



$$\sin \theta = \frac{O}{H} \quad \sin \theta = \frac{4}{x}$$

Is there an exact trigonometric value we can use?

$$\sin(30^\circ) = \frac{1}{2}$$

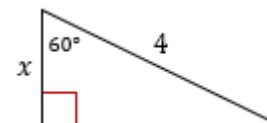
Can we form an equation?

$$\frac{4}{x} = \frac{1}{2}$$

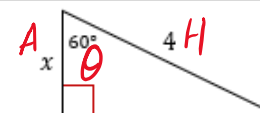
What is the value of x ?

$$4 = \frac{x}{2} \quad x = 8$$

b) Find the length labelled x .



Which trigonometric ratio are we using?



$$\cos \theta = \frac{A}{H} \quad \cos \theta = \frac{x}{4}$$

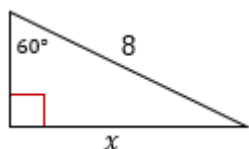
Is there an exact trigonometric value we can use?

$$\cos(60^\circ) = \frac{1}{2}$$

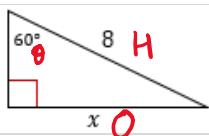
Can we form an equation?

What is the value of x ?

c) Find the length labelled x .



Which trigonometric ratio are we using?



$$\sin \theta = \frac{O}{H} \quad \sin \theta = \frac{x}{8}$$

Is there an exact trigonometric value we can use?

Can we form an equation?

What is the value of x ?

d) Find the length labelled x .

