Pythagorean Theorem & Trigonometry Worksheet

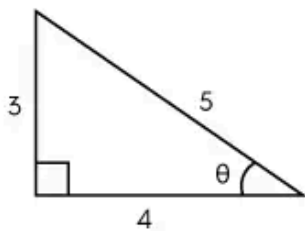Find sin θ, cos θ and tan θ as fractions for each right triangle.

Use,

$$\sin \theta = \frac{\text{opposite side}}{\text{hypotenuse}} \qquad \cos \theta = \frac{\text{adjacent side}}{\text{hypotenuse}} \qquad \tan \theta = \frac{\text{opposite side}}{\text{adjacent side}}$$

1)

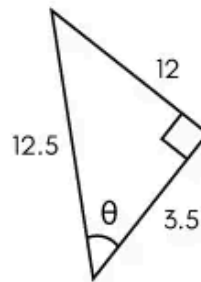
$$\sin \theta = \frac{\Box}{\Box}$$

$$\cos \theta = \frac{\Box}{\Box}$$

$$\tan \theta = \frac{\Box}{\Box}$$

2)
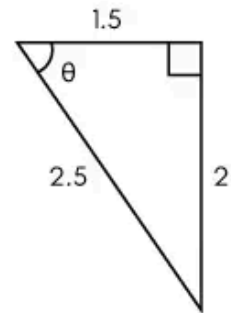

$$\sin \theta = \frac{\Box}{\Box}$$

$$\cos \theta = \frac{\Box}{\Box}$$

$$\tan \theta = \frac{\Box}{\Box}$$

3)
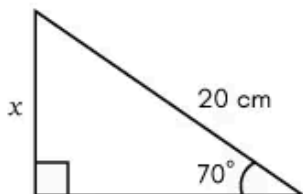

$$\sin \theta = \frac{\Box}{\Box}$$

$$\cos \theta = \frac{\Box}{\Box}$$

$$\tan \theta = \frac{\Box}{\Box}$$

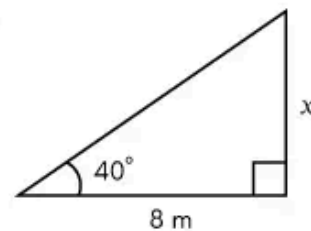Find the length of the unknown side marked 'x' in each right triangle. Work out on a seperate sheet of paper.

4)

$x = $ _____

5)

$x = $ _____