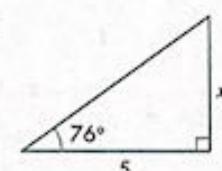
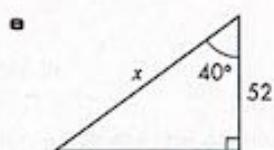
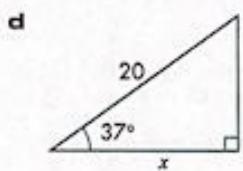
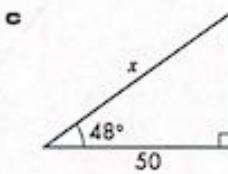
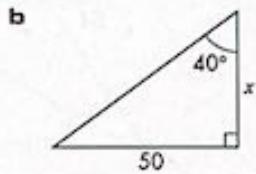
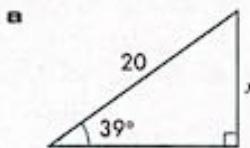


# Basic Trigonometry

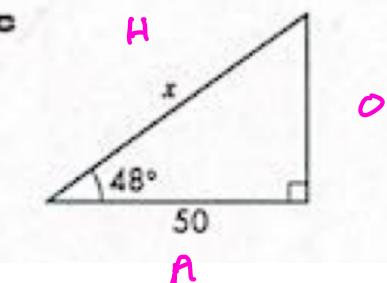
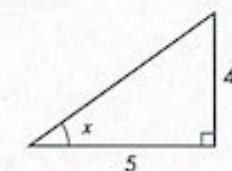
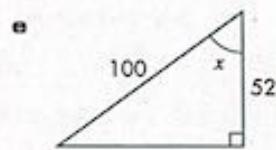
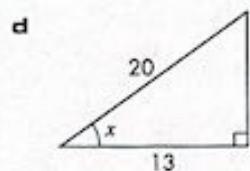
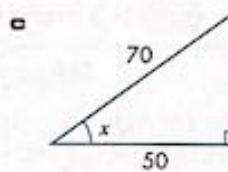
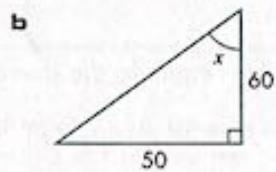
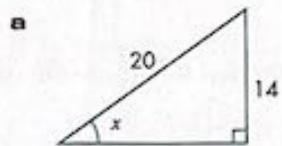
## EXERCISE 6K



1 Find the length marked  $x$  in each of these triangles.



2 Find the angle marked  $x$  in each of these triangles.



$$\cos = \frac{A}{H}$$

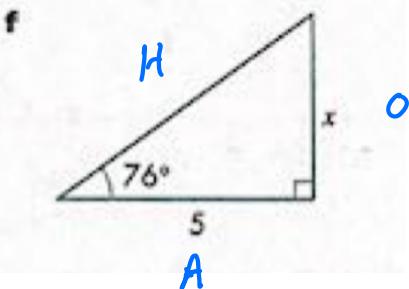
$$\cos 48^\circ = \frac{50}{x}$$

$$x \cos 48^\circ = 50$$

$$x = \frac{50}{\cos 48^\circ}$$

$$x = 74.7$$

1



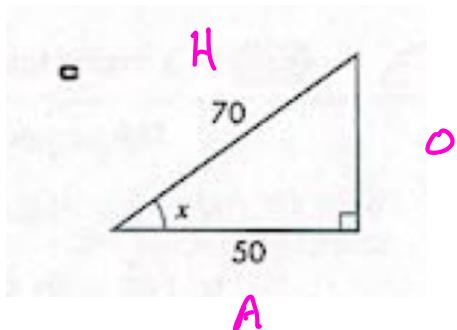
$$\tan = \frac{O}{A}$$

$$\tan 76^\circ = \frac{x}{5}$$

$$5 \tan 76^\circ = x$$

$$x \approx 20.1$$

2



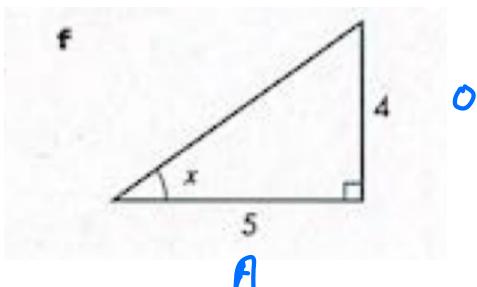
$$\cos = \frac{A}{H}$$

$$\cos x = \frac{50}{70}$$

$$x = \cos^{-1}\left(\frac{50}{70}\right)$$

$$x = 44.4^\circ$$

2



$$\tan = \frac{O}{A}$$

$$\tan x = \frac{4}{5}$$

$$x = \tan^{-1}\left(\frac{4}{5}\right)$$

$$x = 38.7^\circ$$

Classwork - complete Q1, Q2, Q3