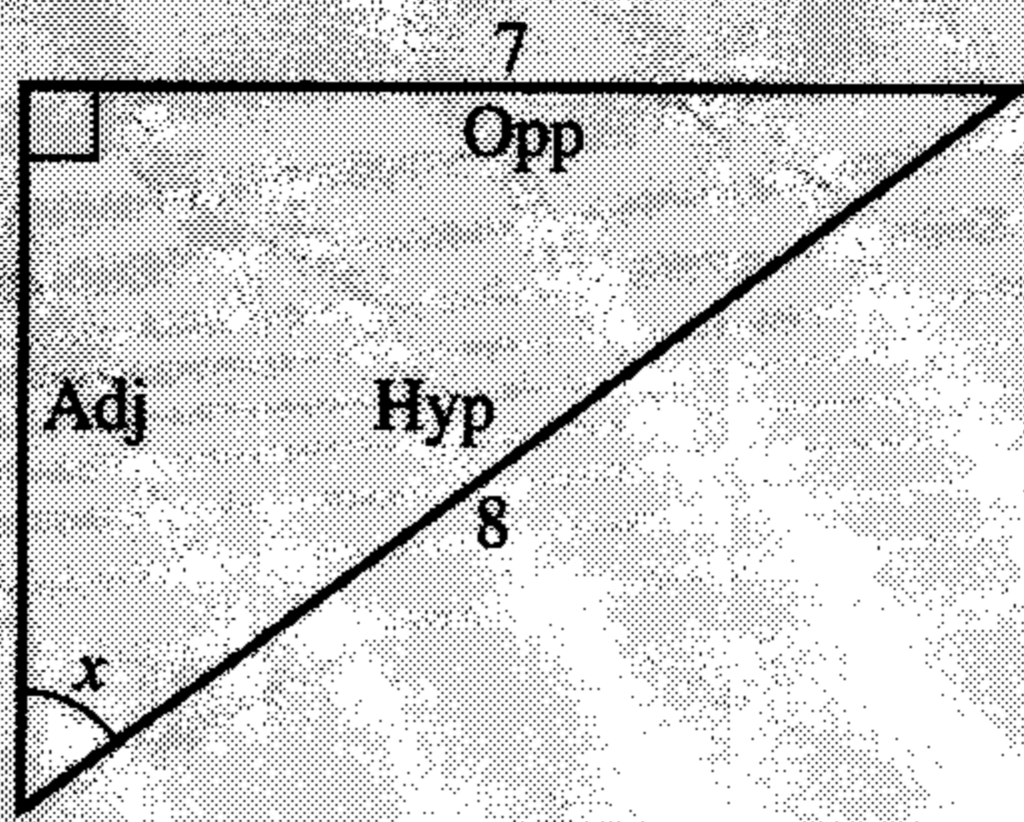


## Finding an angle

(a)

Find angle  $x$ 

$$\sin x = \frac{\text{Opp}}{\text{Hyp}}$$

$$\text{so } \sin x = \frac{7}{8}$$

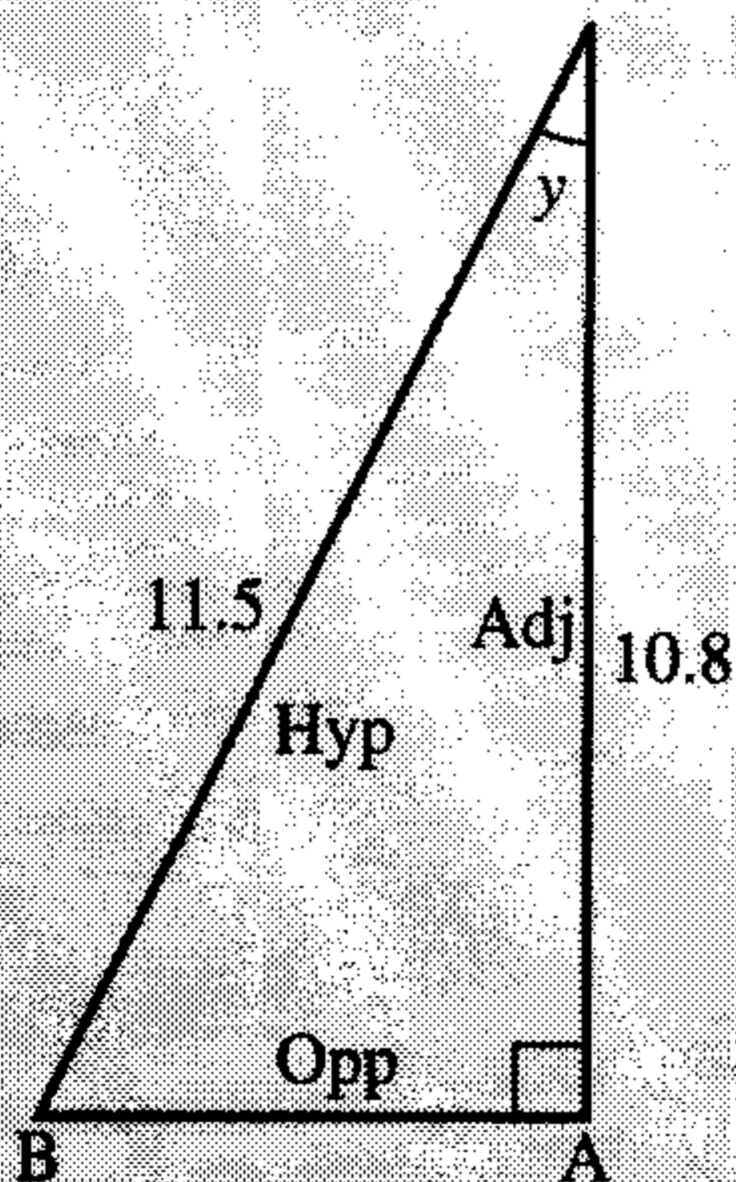
$$x = \sin^{-1}\left(\frac{7}{8}\right) = 61.0^\circ, \text{ correct to 1 d.p.}$$

On a calculator press

$$\boxed{7} \boxed{\div} \boxed{8} \boxed{=} \boxed{\text{SHIFT}} \boxed{\sin}$$

$$\left[ \text{or } \boxed{\text{SHIFT}} \boxed{\sin} \boxed{(} \boxed{7} \boxed{\div} \boxed{8} \boxed{)} \boxed{=} \right]$$

(b)

Find angle  $y$ 

$$\cos y = \frac{\text{Adj}}{\text{Hyp}}$$

$$\text{so } \cos y = \frac{10.8}{11.5}$$

$$y = \cos^{-1}\left(\frac{10.8}{11.5}\right) = 20.1^\circ, \text{ correct to 1 d.p.}$$

### Exercise 4

1. Find the angles marked, correct to one decimal place. All lengths are in cm.

