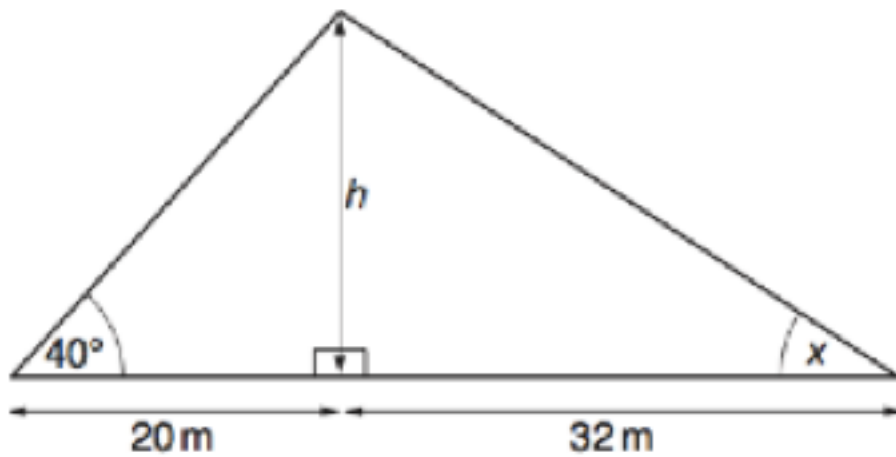


Geometry - Trigonometry Basic



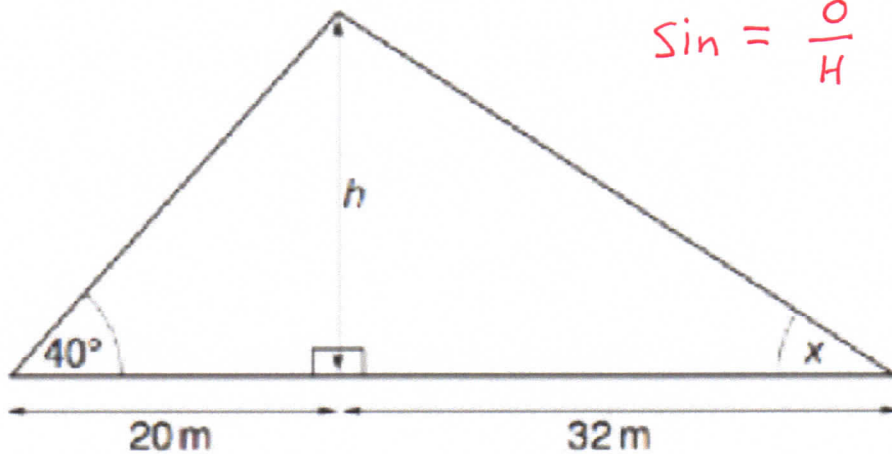
(a) Calculate h .

_____ m [3]

(b) Calculate angle x .

_____ $^\circ$ [3]

Geometry - Trigonometry Basic



$$\sin = \frac{O}{H} \quad \cos = \frac{A}{H} \quad \tan = \frac{O}{A}$$

(a) Calculate h .

$$\tan 40^\circ = \frac{h}{20}$$

$$20 \tan 40^\circ = h$$

$$\underline{h = 16.78} \quad \text{m [3]}$$

(b) Calculate angle x .

$$\tan x = \frac{h}{32} = \frac{16.78}{32}$$

$$x = \tan^{-1}\left(\frac{16.78}{32}\right)$$

$$\underline{x = 27.7} \quad \text{° [3]}$$