

20th June



Corbettmaths

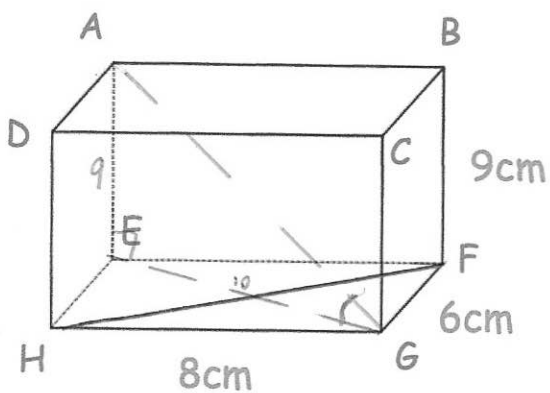
$$g(x) = 3 - x \quad h(x) = x^3$$

Solve  $gh(x) = 30$ 

$$\begin{aligned} 3 - x^3 &= 30 \\ x^3 &= -27 \end{aligned}$$

$$x = -3$$

ABCDEFGH is a cuboid

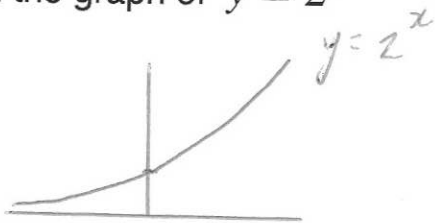


Calculate the length of FH

$$\begin{aligned} 6^2 + 8^2 &= 100 \\ \sqrt{100} &= 10 \text{ cm} \end{aligned}$$

Calculate the size of angle AGE

$$\begin{aligned} \tan^{-1}\left(\frac{9}{10}\right) \\ = 41.987^\circ \end{aligned}$$

Sketch the graph of  $y = 2^x$ Make  $c$  the subject of

$$\frac{5}{a} + \frac{b}{2} - \frac{7}{c} = 0$$

$$\frac{10c + abc - 14a}{2ac} = 0$$

$$10c + abc - 14a = 0$$

$$10c + abc = 14a$$

$$c(10 + ab) = 14a$$

$$c = \frac{14a}{10 + ab}$$