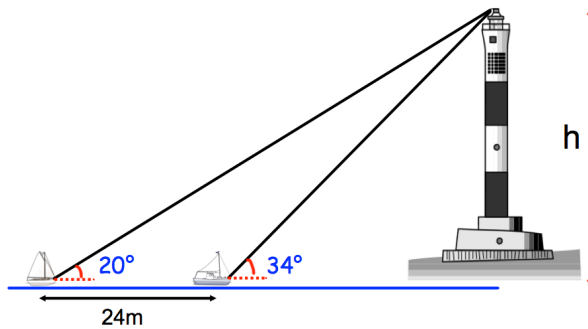


24th April



Corbettmaths

Solve  $x^2 - 14x + 48 < 0$



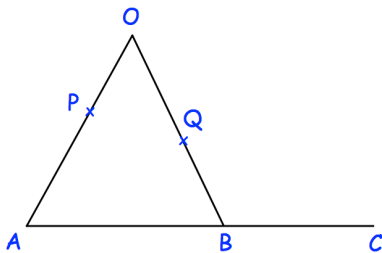
Calculate the height of the lighthouse

$$f(x) = \frac{10}{x} + 1$$

$$g(x) = 2x - 5$$

Dylan says  $fg(5) = gf(5)$ 

Is Dylan correct?



AOB is a triangle.  
P is a point on AO.

$$\vec{AB} = 2\mathbf{a}$$

$$\vec{AO} = 6\mathbf{b}$$

$$AP:PO = 2:1$$

Find the vector  $\vec{OB}$  in terms of  $\mathbf{a}$  and  $\mathbf{b}$ 

Q is the midpoint of OB  
B is the midpoint of AC

Show PQC is a straight line