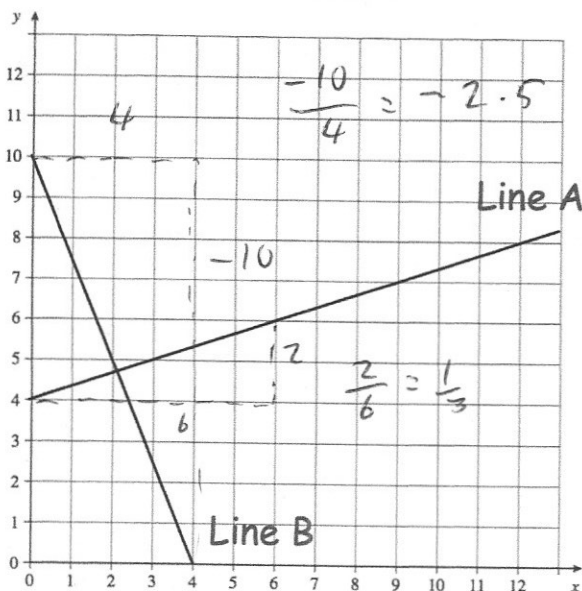


Find x

$$180 - 44 - 44 = 92^\circ$$



Find the gradients of Line A and Line B

$$\frac{1}{3} \quad \downarrow \quad -2.5$$

Are the lines A and B perpendicular?
Explain your answer.

No
For two lines to be perpendicular, their gradients need to multiply to give -1 .
 $\frac{1}{3} \times -2.5 \neq -1$

a , b and c are three integers.

a is 4 less than c $a = c - 4$
 b is 4 more than c $b = (c + 4)$

Show that $ab + 16 = c^2$

$$(c - 4)(c + 4) + 16 = c^2 + 4c - 4c - 16 + 16 = c^2$$

QED

Make y the subject of

$$w = \frac{5 - y}{y + 8}$$

$$w(y + 8) = 5 - y$$

$$wy + 8w = 5 - y$$

$$wy + y = 5 - 8w$$

$$y(w + 1) = 5 - 8w$$

$$y = \frac{5 - 8w}{w + 1}$$