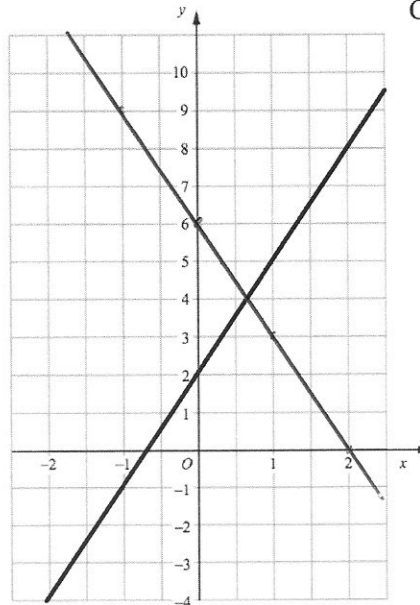




Draw the graph of $3x + y = 6$

$$y = -3x + 6$$



Use your graph to estimate the solutions to simultaneous equations

$$3x + y = 6$$

$$y = 3x + 2$$

$$x = \frac{2}{3}, y = 4$$

Simplify

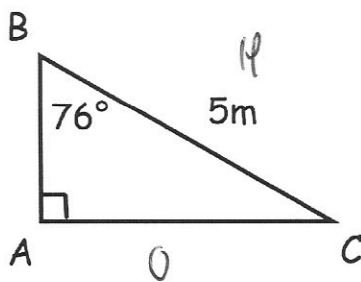
$$(w^5)^{-\frac{2}{3}} \div (w^{-4})^{\frac{7}{3}}$$

$$w^{-\frac{10}{3}} \div w^{-\frac{28}{3}}$$

$$\boxed{w^6}$$

$$-\frac{10}{3} - \left(-\frac{28}{3}\right)$$

$$\frac{-10 + 28}{3} = \frac{18}{3} = 6$$



$$5^0 \text{ M}$$

$$\sin(76) \times 5$$

$$= 4.8514\dots$$

Calculate the perimeter of ABC.

$$AB^2 + 4.8514\dots^2 = 5^2$$

$$AB^2 = 1.46\dots$$

$$AB = 1.2096\dots$$

$$5 + 1.2096 + 4.8514 = 11.061\text{m}$$

Make m the subject of

$$y = \frac{m+9}{m+10}$$

$$y(m+10) = m+9$$

$$my + 10y = m + 9$$

$$my - m = 9 - 10y$$

$$m(y-1) = 9 - 10y$$

$$m = \frac{9 - 10y}{y - 1}$$

$$\frac{9 - 10y}{y - 1}$$