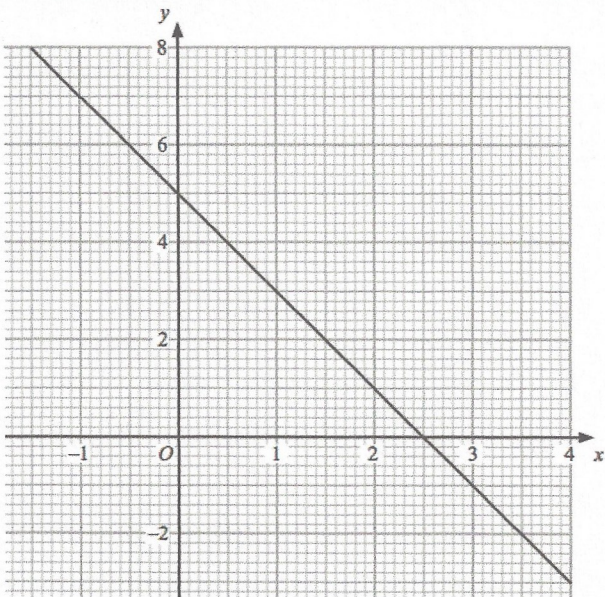


12th September



Corbettmaths



Find the equation of the line drawn.

$$y = -2x + 5$$

How many points of intersection does the line shown and $y = x^3$ have?

1

1

Solve, giving your answers to one decimal place.

$$3x^2 - 10x + 4 = 0$$

$$a = 3$$

$$b = -10$$

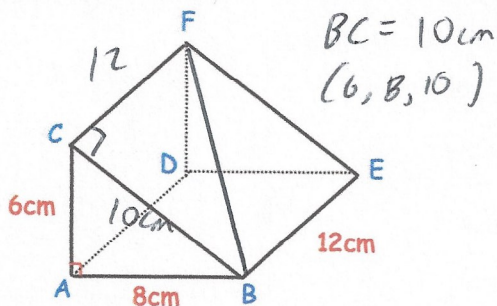
$$c = 4$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{10 \pm \sqrt{100 - 48}}{6}$$

$$x = \frac{10 \pm \sqrt{52}}{6}$$

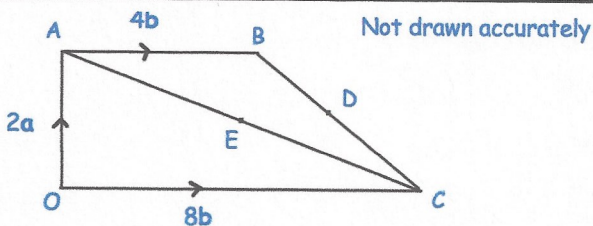
$$x = 2.9 \text{ or } x = 0.5$$



Calculate the length of BF

$$\sqrt{10^2 + 12^2}$$

$$= 15.62 \text{ cm}$$



Write down a vector for \vec{OB}

$$2a + 4b$$

Point D is the midpoint of BC.
Point E is the midpoint of AC.