

29th December

Corbettmaths

Show $x^2 - 5x + 3 = 0$ can be rearranged to the form

$$x = 5 - \frac{3}{x}$$

Use the iteration

$$x_{n+1} = 5 - \frac{3}{x_n}$$

to find an approximation solution to $x^2 - 5x + 3 = 0$

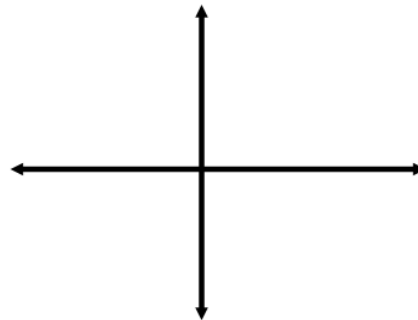
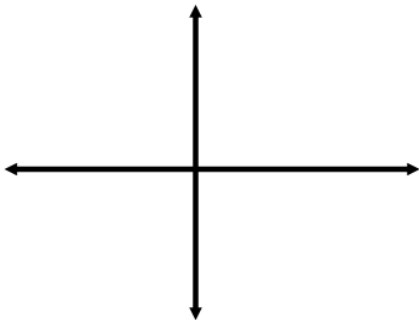
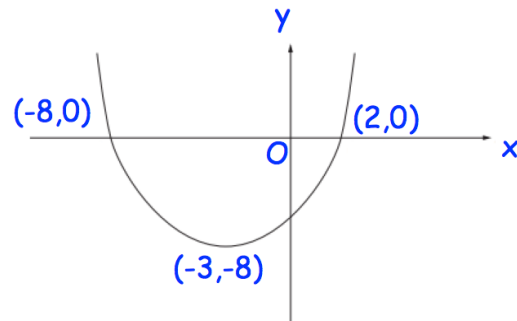
Start with

$$x_1 = 1$$

Shown is a sketch of the graph $y = f(x)$.

- (a) Sketch $f(-x)$
 (b) Sketch $f(x) + 2$

Label known coordinates



Make x the subject of

$$\frac{8}{x} = \frac{3}{y} + \frac{2}{5}$$