

10th January



Corbettmaths

Given

$$2y = \frac{1}{8}$$

Find y

Show the equation $x^2 - 4x + 1 = 0$ can be written in the form

$$x = 4 - \frac{1}{x}$$

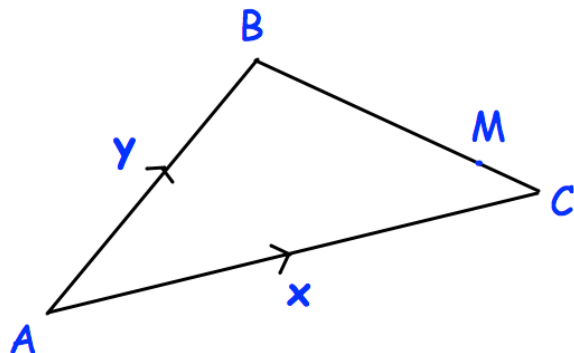
Starting with $x_0 = 3$, use the iteration formula

$$x_{n+1} = 4 - \frac{1}{x_n}$$

twice to find an estimate of the solution of $x^2 - 4x + 1 = 0$ Express these vectors in terms of \mathbf{x} and \mathbf{y}

$$\overrightarrow{BC}$$

$$\overrightarrow{BM}$$

$$\overrightarrow{AM}$$


ABC is a triangle.

M lies on BC such that $BM = \frac{4}{5} BC$ Express these vectors in terms of \mathbf{x} and \mathbf{y}