



Given

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

Find y

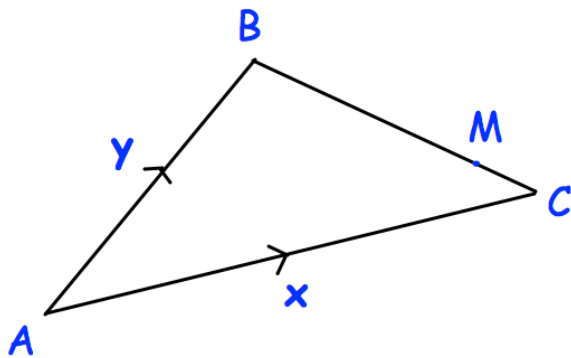
Show the equation $x^2 - 4x + 1 = 0$ can be written in the form

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

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 $x^2 - 4x + 1 = 0$



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}

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$$\vec{BC}$$

$$\vec{BM}$$

$$\vec{AM}$$