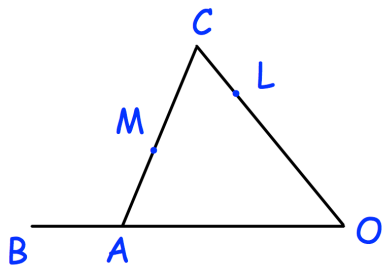




Convert the following recurring decimal to a fraction

$$1.\overline{64}$$



$$\begin{aligned}\vec{OC} &= 8\mathbf{a} \\ \vec{OA} &= 4\mathbf{b} \\ \vec{AB} &= 2\mathbf{b} \\ \vec{OL} &= 6\mathbf{a}\end{aligned}$$

M is the midpoint of AC

Work out the vector

$$\vec{LM}$$

Show that L, M and B lie on a straight line.

Express as a single fraction

$$\frac{b}{a} - \frac{a-1}{b+1}$$

Write down the coordinates of the minimum point on the curve

$$y = x^2 - 6x - 20$$