
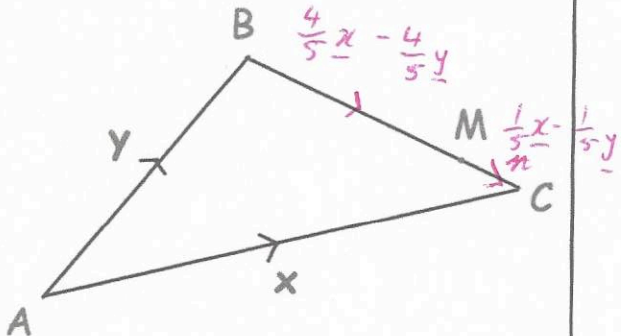


10th January		 Corbettmaths
Given $2y = \frac{1}{8}$ Find y	$y = -3$	
Show the equation $x^2 - 4x + 1 = 0$ can be written in the form $x = 4 - \frac{1}{x}$	$x^2 = 4x - 1$ $x = 4 - \frac{1}{x}$	
Starting with $x_0 = 3$, use the iteration formula $x_{n+1} = 4 - \frac{1}{x_n}$ twice to find an estimate of the solution of $x^2 - 4x + 1 = 0$	$x_0 = 3$ $x_1 = \frac{11}{3}$ $x_2 = \frac{41}{11} = 3.7272\dots$	
Express these vectors in terms of x and y \overrightarrow{BC}	$-y + x$ or $x - y$	
\overrightarrow{BM}	$\frac{4}{5}x - \frac{4}{5}y$	
\overrightarrow{AM}	$\frac{4}{5}x + \frac{1}{5}y$	
 <p>ABC is a triangle. M lies on BC such that $BM = \frac{4}{5} BC$</p> <p>Express these vectors in terms of x and y</p>		