
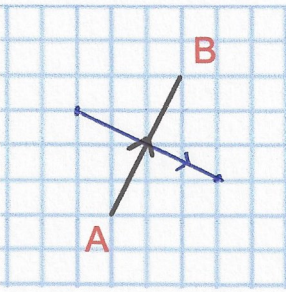
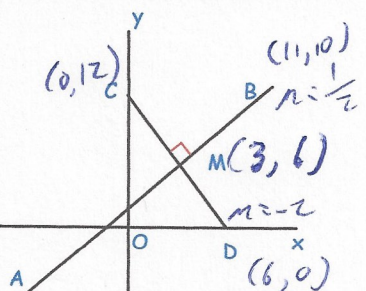


25th March		 Corbettmaths
Simplify $(81x^8)^{-\frac{3}{4}}$	$\sqrt[4]{81x^8} = 3x^2$ $(3x^2)^3 = 27x^6$	$\frac{1}{27x^6}$
Make m the subject $2 = \frac{m+k}{m-t}$	$2(m-t) = m+k$ $2m - 2t = m+k$ $m = k + 2t$	
	$\vec{AB} = \begin{pmatrix} 2 \\ 4 \end{pmatrix}$ Write down a vector that is perpendicular to AB and the same length $\begin{pmatrix} 4 \\ -2 \end{pmatrix}$	
	Find the equation of AB $y = \frac{1}{2}x + c$ $6 = 1.5 + c$ $c = 4.5$ $y = \frac{1}{2}x + 4\frac{1}{2}$	
Shown are the straight lines AB and CD. M is the midpoint of CD AB is perpendicular to CD and passes through the point M C is the point (0, 12) and D is the point (6, 0)	B is the point (11, 10) AM:MB = 5:2 $\begin{pmatrix} 8 \\ 4 \end{pmatrix} \div 2 = \begin{pmatrix} 4 \\ 2 \end{pmatrix}$ Find the coordinates of the point A $\begin{pmatrix} 20 \\ 10 \end{pmatrix}$ $(-17, -4)$	