
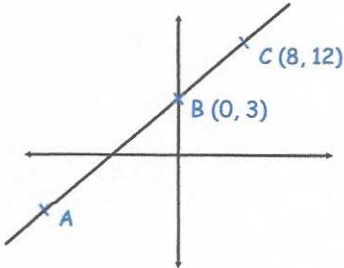


9th February		 Corbettmaths
<p>A water tank springs a leak (at the base) and loses 8% of its water every minute.</p> <p>What percentage of water is lost over 5 minutes?</p>	$100 \times 0.92^5$ $= 65.908\dots$ $100 - 65.908\dots =$ $34.0918\% \text{ lost}$	
<p>Simplify <math>\sqrt{48}</math></p>	$\sqrt{16} \times \sqrt{3}$ $4\sqrt{3}$	
	<p>AB:BC is 5:2</p> <p>Find the coordinates of point A</p> $(-20, -19.5)$	
<p>Convert <math>0.3\dot{4}</math> to a fraction.</p> <p>Give your answer in its simplest form.</p>	$x = 0.3444\dots$ $10x = 3.444\dots$ $100x = 34.444\dots$ $90x = 31$ $x = \frac{31}{90}$	
<p><math>(ax + 1)(x - 3)(x + b) = 2x^3 - 3x^2 - 8x - 3</math></p> <p>Find a and b</p> $ax^3 = 2x^3$ $\underline{a = 2}$ $-3b = -3 \quad \underline{b = 1}$		