
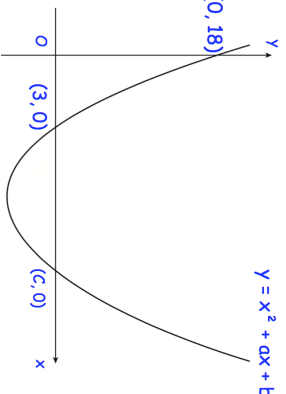
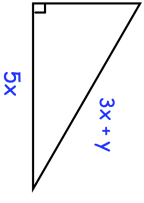

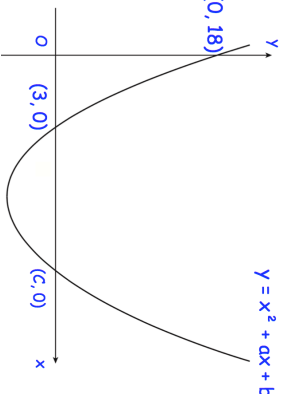
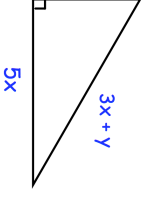


3rd June	
<p>Shown is the graph of $y = x^2 + ax + b$</p> <p>The graph crosses the y-axis at $(0, 18)$ and the x-axis at $(3, 0)$ and $(c, 0)$, where $c > 3$</p> <p>Find the values of a and b</p>	
<p>Given</p> $f(x) = \frac{2x + 1}{5}$ <p>find</p> $f^{-1}(4)$	
<p>An object has a mass of 420kg, correct to two significant figures.</p> <p>The density of the material it is made from is 5.4g/cm^3, correct to one decimal place. Work out the smallest possible volume of the object. Give your answer to three significant figures.</p>	
<p>$x - y$</p> 	<p>Prove $x : y = 8 : 17$</p>

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