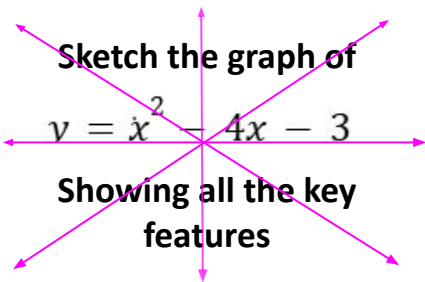


# A Level Maths

Please complete one line from the task box below. All students must complete the middle box.

<p>Write down the <math>x^3</math> term of</p> $y = (x - 4)^5$	<p>Find the equation of the line perpendicular to <math>y=3x-4</math> passing through <math>(2,-2)</math></p>	<p>Make <math>y</math> the subject</p> $\sqrt{\frac{m(y+a)}{y}} = g$
<p>Write as a power of 3</p> $9\sqrt{3}$	<p>Sketch the graph of <math>y = x^2 - 4x - 3</math> Showing all the key features</p> 	<p>Solve</p> $\begin{aligned} y &= x^2 + 6x - 9 \\ y &= 3x + 1 \end{aligned}$
<p>A particle accelerates from 2m/s to 10m/s in 10 seconds. Find the acceleration and distance travelled.</p>	<p>The area of an equilateral triangle is <math>10\text{cm}^2</math>. Find the perimeter.</p>	<p>12 boys have a mean score of 9. 17 girls have a mean score of 10. Another person joins and now the class mean is 10. What did the person score?</p>

## Useful resources/websites

- <https://www.tlmaths.com/home>
- <https://www.physicsandmathstutor.com/maths-revision/>
- <https://undergroundmathematics.org/>

## Suggested books/reading list

- Alex's Adventures in Numberland
- Maths in Minutes: 200 Key Concepts Explained in an Instant
- How Not to Be Wrong: The Hidden Maths of Everyday Life
- The Ultimate Mathematical Challenge
- Does God Play Dice?