



1) Simplify $\sqrt{75} + \sqrt{12}$

2) Find the coordinates of the vertex of the graph

$$y = x^2 - 6x + 10$$

3) Use the formula $v^2 = u^2 + 2as$ to find the initial velocity, if, after 7m, the final velocity was 9m/s, the acceleration was 4m/s²

4) Expand and simplify $(x - 4)^3$

5) What is the exact value of $\cos 60^\circ$



1) Find the equation of the line parallel to $3y + 6x = 5$ passing through the point $(4, -3)$

2) Simplify $\frac{2x-5}{3} - \frac{2x-4}{6}$

3) Sketch the graph of $y = x^3$

4) A pressure of 24 N/m^2 results from a force of 12 N acting over an area $x \text{ m}^2$. Find x

5) Rationalise the denominator

$$\frac{6\sqrt{7}}{\sqrt{7} - 1}$$

