



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/s<sup>2</sup>

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

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