1   Simplify $\dfrac{6\sqrt{3}-4}{8-\sqrt{3}}$, giving your answer in the form $p\sqrt{3}-q$, where p and q are positive rational numbers. **(4 marks)**

2 $f(x) = x^2 - (k+8)x + (8k+1)$

    a   Find the discriminant of $f(x)$ in terms of k giving your answer as a simplified quadratic. **(3 marks)**

    b   If the equation $f(x) = 0$ has two equal roots, find the possible values of k. **(2 marks)**

    c   Show that when $k = 8$, $f(x) > 0$ for all values of x. **(3 marks)**

3   A stone is thrown from the top of a cliff. The height h, in metres, of the stone above the ground level after t seconds is modelled by the function $h(t) = 115 + 12.25t - 4.9t^2$

    a   Give a physical interpretation of the meaning of the constant term 115 in the model. **(1 mark)**

    b   Write $h(t)$ in the form $A - B(t - C)^2$, where A, B and C are constants to be found. **(3 marks)**

    c   Using your answer to part **b**, or otherwise, find, with justification

      i   the time taken after the stone is thrown for it to reach ground level **(3 marks)**

      ii   the maximum height of the stone above the ground and the time after which this maximum height is reached. **(2 marks)**

4 $p(x) = 3 - \dfrac{1}{2}x$, $q(x) = x^2 - 10x - 20$

    a   Solve the equation $q(x) = 0$. Write your answer in the form $a \pm 3\sqrt{b}$, where a and b are integers to be found. **(2 marks)**

    b   Sketch the graphs of $y = p(x)$ and $y = q(x)$ on the same set of axes. Label all points where the curves intersect the coordinate axes. **(4 marks)**

    c   Use an algebraic method to find the coordinates of any point of intersection of the graphs $y = p(x)$ and $y = q(x)$. **(4 marks)**

    d   Write down, using set notation, the set of values of x for which $p(x) < q(x)$. **(2 marks)**

5 $g(x) = \dfrac{4}{x-6} + 5$, $x \in \mathbb{R}$

    Sketch the graph $y = g(x)$. Label any asymptotes and any points of intersection with the coordinate axes. **(5 marks)**

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