Polynomial Functions & Equations

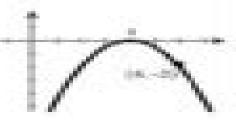syllabus content: polynomial functions & their graphs, factor & remainder theorems, fundamental theorem of algebra, solving polynomial equations & inequalities both graphically & algebraically, sum & product of the roots of a polynomial equation.
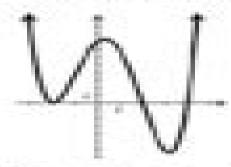
[answers on last page]

Exercises

Part I – questions 1–11, no calculator allowed

1. Consider a parabola (shown in diagram) that has a vertex at (a, b) and passes through the point $(h, -2)$. Find the equation of this parabola and write in softer form $y = ax^2 + bx + c$.

2. The graph of a quartic function (shown in diagram) has exactly three x-intercepts at $x = -2$, $x = 2$ and $x = 4$, and has a y-intercept at $y = 16$. Express the equation for this function in the form $y = a_4 x^4 + a_3 x^3 + a_2 x^2 + a_1 x + a_0$.

3. Given that $x = 2$ and $x = -1$ are zeros of the polynomial function $g(x) = 3x^3 - 4x^2 - 5x + 6$, find the remaining zeros of g.

4. Given that $x^3 + Ax^2 + x + B$ is exactly divisible by both $x - 1$ and $x + 3$, find the value of A and the value of B.

5. Find a polynomial with integer coefficients of lowest degree having zeros of $x = -\frac{1}{2}$ and $x = 3i$.

6. $x - 1$ is a factor of the polynomial $P(x) = x^3 + ax^2 + ax - 4$.
   (a) Show that $a + a = 3$.
   (b) Show that P can be written in factorised form as $P(x) = (x - 1)[x^2 + (y + 1)(x + 4)]$.

7. The polynomial $ax^3 + 4x^2 + cx - 16$ is divisible by $x^2 - 4$. Find the value of a and the value of c.

8. When the function $g(x) = x^3 + bx^2 - 5x + 2$ is divided by $(x - 2)$ it leaves the same remainder as when it is divided by $(x + 2)$. Find the value of b.

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Andreas Strömbergsson

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