

Polynomial Functions & Equations

Subject 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.

(continued on next page)

Exercises

Part I – questions 1–11, ggg calculator allowed

1. Consider a parabola (shown in diagram) that has a vertex at $(4, 0)$ and passes through the point $(5, -2)$. Find the equation of this parabola and write it in the 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 $y = 8$. Express the equation for this function in the form $y = a_1x^4 + a_2x^3 + a_3x^2 + a_4x + a_5$.

3. Given that $x = 2$ and $x = -3$ are roots of the polynomial function, $p(x) = (x^2 + bx^2 + cx + d)$ find the remaining roots of p .
4. Given that $x^2 + 4x^2 + x + 27$ is exactly divisible by both $x + 1$ and $x + 2$, find the value of b and the value of d .
5. Find a polynomial with integer coefficients of lowest degree having roots of $x = -\frac{1}{2}$ and $x = 2 + i$.
6. $x = 2$ is a factor of the polynomial $p(x) = x^3 + axx^2 + bx + 4$.
 (a) Show that $a = 0$ or 5 .
 (b) Show that p can be written in factored form as $p(x) = (x + c)(x^2 + d(x + 4))$.
7. The polynomial $ax^2 + bx^2 + cx + 36$ is divisible by $x^2 + 6$. Find the value of a and the value of c .
8. Write the function $p(x) = x^3 + 4bx^2 + cx + 2$ is divided by $(x + 3)$ is known that value remainder is when it is divided by $(x + 1)$. Find the value of b .

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K Morrison



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