

## 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  $y = a(x-h)^2 + k$ .



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,  $p(x) = (x^2 + 4x^2 + 5x + 6)$  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  $a$  and the value of  $b$ .
5. Find a polynomial with integer coefficients of lowest degree having roots of  $x = -\frac{2}{3}$  and  $x = 2 + i$ .
6.  $x = 2$  is a factor of the polynomial  $f(x) = x^3 + axx^2 + bx + 4$ .  
 (a) Show that  $a + b = 5$ .  
 (b) Show that  $f$  can be written in factored form as  $f(x) = (x - 2)(x^2 + px + q)(x + 4)$ .
7. The polynomial  $ax^2 + 4x^2 + ax + 36$  is divisible by  $x^2 + 6$ . Find the value of  $a$  and the value of  $x$ .
8. Write the function  $p(x) = x^3 + 4x^2 + 5x + 2$  is divided by  $(x + 3)$  in factors that have remainder 0, where it is divided by  $(x + 1)$ . Find the value of  $k$ .

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