Cubic polynomials

- **1.** Given a cubic polynomial, p(x). If p(1) = -6, p(2) = -4, p(3) = 2 and p(4) = 18, find the value of p(0).
- **2.** Find a cubic polynomial whose graph has horizontal tangents at (-2, 12) and (4, -6).

Answers:

- **1.** p(0) = -10
- **2.** $p(x) = \frac{x^3}{6} \frac{x^2}{2} 4x + \frac{22}{3}$