## Questions

- 1. Perform the operators if any, and simplify
  - (a)  $\frac{6x^3}{2x}$
  - (b)  $(4x-1)^2 (2x-3)^2$
  - (c)  $\frac{24x^{-3}y^4}{6x^2y^{-3}}$
  - (d)  $\sqrt[3]{16a^4b^9c^8}$
  - (e)  $\frac{4x}{2x-3} + \frac{5x}{x-5}$
- 2. Factor
  - (a) 5x + 20
  - (b)  $x^2 + 7x + 12$
  - (c)  $x^2 + 6x + 5$
  - (d) (x-3)(a+b) + (x-3)(a+2b) where a,b are constants
  - (e)  $6x^2 + xy 40y^2$
  - (f)  $3x^3 + x^2 + 6x + 2$
  - (g)  $x^4 + x^2 20$
  - (h)  $4x^5 4x^3 8x$