

The Factor Theorem

Increasingly
Difficult
Exercises

Factorise fully...

- a) $x^3 + 5x^2 + 4x$ b) $x^3 - 6x^2 + 3x + 10$ c) $2x^3 + 2x^2 - 16x - 24$
- d) $x^3 - 3x^2 + 3x - 1$ e) $2x^3 - 5x^2 - 11x - 4$ f) $2x^3 - 3x^2 - 50x + 75$

Solve...

- g) $x^3 - 5x^2 + 6x = 0$ h) $x^3 - 2x^2 - 5x + 6 = 0$ i) $6x^3 - 13x^2 + 4 = 0$
- j) $6x^3 - 3x^2 - 123x - 60 = 0$ k) $3x^3 - 2x^2 - 48x + 40 = 8$ l) $24x^3 - 22x^2 + x + 8 = 2x + 5$

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- j) $6x^3 - 3x^2 - 123x - 60 = 0$ k) $3x^3 - 2x^2 - 48x + 40 = 8$ l) $24x^3 - 22x^2 + x + 8 = 2x + 5$