



Air maths tuition

Interact, engage and perform

Factorising: Revision Exercise - Worked Solutions 1-4

Factorise the following

- | | | |
|-------------------------|----------------------------|---------------------|
| ① $10x^5y^2 - 12x^4y^3$ | ② $3a^2 - 12$ | ③ $7x^2 + 4x - 3$ |
| ④ $15a^2 + ab - 6b^2$ | ⑤ $3a^2 - 6ac + 3ab - 6bc$ | |
| ⑥ $30x^3 + 3x^2 - 9x$ | ⑦ $(a+b)^2 - (a+b)(a+3b)$ | |
| ⑧ $p^4 - q^4$ | ⑨ $2 + 3x - 9x^2$ | ⑩ $x^6 - 8x^3 + 15$ |

$$\textcircled{1} \quad 10x^5y^2 - 12x^4y^3 \equiv 2x^4y^2(5x - 6y)$$

$$\textcircled{2} \quad 3a^2 - 12 \equiv 3(a^2 - 4) \\ \equiv 3(a + 2)(a - 2)$$

$$\textcircled{3} \quad 7x^2 + 4x - 3 \equiv (7x - 3)(x + 1)$$

$$\textcircled{4} \quad 15a^2 + ab - 6b^2 \equiv (5a - 3b)(3a + 2b) \checkmark$$

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