

### Harder Factorising (Common Factors)

Factorise fully:

- (a)  $4x^2y + 10xy^2$
- (b)  $6ab - 3a^2b^2$
- (c)  $2x^2y + 5xy$
- (d)  $abc^2 - a^2c$

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Factorise fully:

- (a)  $14de^4 - 21d^2e^2$
- (b)  $33f^3g^2 + 11f^2g$
- (c)  $5x^5y^2 + 3x^2y$
- (d)  $45pqr^2 - 25p^3qr$

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Factorise fully:

- (a)  $12m^4n^5 - 8m^2n^7$
- (b)  $a^4b^2c^5 + a^5bc^3$
- (c)  $42d^4e^2 - 56de^6f$
- (d)  $km^3n^2p^7 + k^3mn^3p^2$

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Factorise fully:

- (a)  $30x^2y - 12y^2z + 18xyz$
- (b)  $25a^2bc + 10ab^3 + 35a^3b^2c$
- (c)  $d^4e^2f - d^3e^5f^2 - d^2e^4f^3$
- (d)  $4pq^3r + 12q^2rs^3 - 8q^4r^2$

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Factorise fully:

- (a)  $a^{13}b^7 + a^5b^{10} + a^{11}b^8$
- (b)  $21c^{14}d^8 - 35c^9d^{15}$
- (c)  $8x^{20}y^4z^7 - 6x^8y^{14}z^9 + 2x^{11}y^7z^5$

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