**Harder Factorising (Common Factors)**

Factorise fully:

(a) $4x^{2}y+10xy^{2}$

(b) $6ab-3a^{2}b^{2}$

(c) $2x^{2}y+5xy$

(d) $abc^{2}-a^{2}c$

Factorise fully:

(a) $14de^{4}-21d^{2}e^{2}$

(b) $33f^{3}g^{2}+11f^{2}g$

(c) $5x^{5}y^{2}+3x^{2}y$

(d) $45pqr^{2}-25p^{3}qr$

Factorise fully:

(a) $12m^{4}n^{5}-8m^{2}n^{7}$

(b) $a^{4}b^{2}c^{5}+a^{5}bc^{3}$

(c) $42d^{4}e^{2}-56de^{6}f$

(d) $km^{3}n^{2}p^{7}+k^{3}mn^{3}p^{2}$

Factorise fully:

(a) $30x^{2}y-12y^{2}z+18xyz$

(b) $25a^{2}bc+10ab^{3}+35a^{3}b^{2}c$

(c) $d^{4}e^{2}f-d^{3}e^{5}f^{2}-d^{2}e^{4}f^{3}$

(d) $4pq^{3}r+12q^{2}rs^{3}-8q^{4}r^{2}$

Factorise fully:

(a) $a^{13}b^{7}+a^{5}b^{10}+a^{11}b^{8}$

(b) $21c^{14}d^{8}-35c^{9}d^{15}$

(c) $8x^{20}y^{4}z^{7}-6x^{8}y^{14}z^{9}+2x^{11}y^{7}z^{5}$

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