

## Worksheet: Simple Factorisation

This worksheet has questions about factorising algebraic expressions and equations.

Simple Factorisation  
study guide



Model answers  
to this sheet



1. Factorise the following expressions:

(a)  $2x^2 - x^3$       (b)  $12x^2 + 6x^3$       (c)  $-2x^2 - x^3$       (d)  $2x^2 - 4x^3$

(e)  $6x - 12$       (f)  $6 - 12x$       (g)  $25x - 5y - 5$       (h)  $\frac{1}{2}x + \frac{1}{4}$

(i)  $ab^3 - ab$       (j)  $5a - 10b + 15c$

2. Factorise the following expressions:

(a)  $2xy^2 - x^3y$       (b)  $2xy^2z^3 - 6x^3yz + 4xyz$

(c)  $12abc^3 - 6a^3b^2c + 4abc^2$       (d)  $-3pqr - 6p^3q^2r^2 - 15pq^2r$

3. Factorise the following expressions:

(a)  $\frac{2xy^2}{3} + \frac{4xy}{9}$       (b)  $\frac{2}{3}xy^2 + \frac{4}{9}xy$       (c)  $\frac{4}{x} + \frac{8}{x^2}$

(d)  $\frac{15r^2}{pq} + \frac{5r}{pq^2}$       (e)  $\frac{1}{s} - \frac{1}{s^2}$       (f)  $\frac{8xz^2}{7y} + \frac{4xz^3}{49y^2}$



This worksheet is one of a series on mathematics produced by the Learning Enhancement Team.

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