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(ACHA3600)

Introduction to Mathematics and Science

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(6) Factorise the following expressions fully

(i) $10p^3q^2 - 5p^2q + 15p^4q$

$5p^2q$ ~~(2pq)~~ $(2pq) - 5p^2q + 15p^4q$

$5p^4q(2pq) + 5p^2q(-1) + 15p^4q$

$5p^2q(2pq - 1) + 5p^2q(3p^2)$

$5p^2q(2pq - 1 + 3p^2)$

(ii) $2x^2y - 4xy^2$

$2xy(x) - 4xy^2$

$2xy(x) + 2xy(-2y)$

$2xy(x - 2y)$