

Name : _____

Factors: Algebraic Identities

MS3

Factorize each expression using algebraic identities.

1) $\frac{8}{y^3} - \frac{60}{y^2} + \frac{150}{y} - 125$

2) $3m^3n^3 + 54m^2n^2 + 324mn + 648$

3) $32a^3 - 48a^2b$

5) $p^3q^3 + 9p^2q^2r$

7) $\frac{2}{u^3} - \frac{18}{u^2v} + \frac{5}{u}$

9) $a^3b^2 + 3a^2b^2c + 3ab^2c^2 + b^2c^3$

10) $w^3 - 12w^2x + 48wx^2 - 64x^3$

2c² 2c

$\frac{1}{d^3}$

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$15rs^2t^2 + s^3t^3$

$525k - 125$