

Name : _____

Factors: Algebraic Identities

MS3

Factorize each expression using algebraic identities.

1) $\frac{1}{p^3} - 27q^3$

2) $g^3 - 216h^3$

3) $729m^3 + 125$

16

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5) $a^3b^4 + bc^3$

7) $\frac{1}{x^3} - \frac{343}{y^3}$

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9) $3r^3s^3 + 3000$

10) $\frac{1}{c^3} - 512$