

Name : \_\_\_\_\_

## Factors: Algebraic Identities

MS1

Factorize each expression using algebraic identities.

1)  $512r^3 + s^3$

2)  $\frac{8}{c^3} - 729d^3$

3)  $a^3b^3 - 8c^3d^3$

5)  $\frac{1}{g^3} - \frac{64}{h^3}$

7)  $375z^4 - 81z$

9)  $343v^3 + 1728w^3$

10)  $125x^3y^3 - z^3$

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