

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

## Factors: Algebraic Identities

ES1

Factorize each expression using algebraic identities.

1)  $x^3 + 15x^2 + 75x + 125$

2)  $u^3v^3 - 27u^2v^2 + 243uv - 729$

3)  $s^3 + 3s + \frac{3}{s} + 1$

p + 343

5)  $g^3 - 3g^2h + 3$

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- w<sup>3</sup>

7)  $y^3 - 24y^2 + 19$

+ 48mn + 64

9)  $\frac{1}{a^3} + \frac{3}{a^2b} + \frac{3}{ab^2} + \frac{1}{b^3}$

10)  $k^3 - 6k^2 + 12k - 8$

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