

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

## Factors: Algebraic Identity

ES3

Factorize each expression using algebraic identity.

1)  $z^2 + y^2 - 2yz - 18y + 18z + 81$

2)  $a^2 + 10a + \frac{b^2}{c^2} + \frac{2ab}{c} + \frac{10b}{c} + 25$

3)  $m^2 + n^2 + 2mn +$

$3pq - 2qr - 2pr$

5)  $u^2 + v^2 - 2uv + \frac{1}{w}$

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$12h - 12g + 36$

7)  $s^2t^2 + 2stu + u^2 -$

$5d + 6c + 9$

9)  $q^2 + r^2 + 2qr + 4r + 4q + 4$

10)  $x^2 + y^2 + 2xy - 8y - 8x + 16$

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