

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

## Factors: Algebraic Identities

ES2

Factorize each expression using algebraic identities.

1)  $m^2 - 2mn + n^2$

2)  $u^2 + 4u + 4$

3)  $z^2 - 10z + 25$

5)  $r^2s^2 + 6rs + 9$

7)  $\frac{1}{u^2} - 2 + u^2$

9)  $a^2 + 16 - 8a$

10)  $\frac{1}{p^2} - \frac{2}{pq} + \frac{1}{q^2}$

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**Factors: Algebraic Identities**

Factorize each expression using algebraic identities.

1)  $m^2 - 2mn + n^2$

$(m - n)^2$

2)  $u^2 + 4u + 4$

$(u + 2)^2$

3)  $z^2 - 10z + 25$

$(z - 5)^2$

5)  $r^2s^2 + 6rs + 9$

$(rs + 3)^2$

7)  $\frac{1}{u^2} - 2 + u^2$

$\left(\frac{1}{u} - u\right)^2$

9)  $a^2 + 16 - 8a$

$(a - 4)^2$

10)  $\frac{1}{p^2} - \frac{2}{pq} + \frac{1}{q^2}$

$\left(\frac{1}{p} - \frac{1}{q}\right)^2$

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