

Name: _____

Factors: Algebraic Identities

ES1

Factorize each expression using algebraic identities.

1) $y^2 + 6y + 9$

2) $s^2 + 2 + \frac{1}{s^2}$

3) $c^2 - 2cd + d^2$

4) $u^2v^2 + 4uv + 4$

5) $w^2 - \frac{2w}{x} + \frac{1}{x^2}$

6) $q^2 - 2qr + r^2$

7) $k^2 + 169 + 26k$

8) $\frac{1}{t^2} - \frac{8}{t} + 16$

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

10) $b^2 + 12b + 36$