

Name : _____

Factors: Algebraic Identities

ES2

Factorize each expression using algebraic identities.

1) $a^2 - \frac{1}{a^2}$

2) $k^2 + 6k + 8$

3) $g^2 - 2g + gh$

5) $c^2 + 2cd + d^2$

7) $p^2 - 16p + 64$

9) $s^2 - t^2$

10) $\frac{1}{r^2} + r^2 + 2$

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Factors: Algebraic Identities

Factorize each expression using algebraic identities.

1) $a^2 - \frac{1}{a^2}$

$$\left(a + \frac{1}{a}\right)\left(a - \frac{1}{a}\right)$$

2) $k^2 + 6k + 8$

$$(k + 2)(k + 4)$$

3) $g^2 - 2g + gh$

$$(g + h)(g - 2)$$

5) $c^2 + 2cd + d^2$

$$(c + d)^2$$

7) $p^2 - 16p + 64$

$$(p - 8)^2$$

9) $s^2 - t^2$

$$(s + t)(s - t)$$

10) $\frac{1}{r^2} + r^2 + 2$

$$\left(\frac{1}{r} + r\right)^2$$

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