

Name : _____

Factors: Algebraic Identity

ES2

Factorize each expression using algebraic identity.

1) $k^2 - 100$

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

3) $m^2n^2 - 64$

5) $p^2 - q^2$

7) $121 - \frac{w^2}{v^2}$

9) $36 - a^2$

10) $y^2 - 49$

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Name : _____

Answer key

ES2

Factors: Algebraic Identity

Factorize each expression using algebraic identity.

1) $k^2 - 100$

$(k + 10)(k - 10)$

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

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

3) $m^2n^2 - 64$

$(mn + 8)(mn - 8)$

5) $p^2 - q^2$

$(p + q)(p - q)$

7) $121 - \frac{w^2}{v^2}$

$\left(11 + \frac{w}{v}\right)\left(11 - \frac{w}{v}\right)$

9) $36 - a^2$

$(6 + a)(6 - a)$

10) $y^2 - 49$

$(y + 7)(y - 7)$

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