

Name : _____

Factors: Algebraic Identity

MS1

Factorize each expression using algebraic identity.

1) $27x^2y - 3y$

2) $144u^2 - v^2$

3) $100g^2 - \frac{64}{h^2}$

5) $196s^2 - 225$

7) $100 - 16z^2$

9) $49 - \frac{256}{t^2}$

10) $9k^2 - 121$

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Name : _____

Answer key

MS1

Factors: Algebraic Identity

Factorize each expression using algebraic identity.

1) $27x^2y - 3y$

$3y(3x + 1)(3x - 1)$

2) $144u^2 - v^2$

$(12u + v)(12u - v)$

3) $100g^2 - \frac{64}{h^2}$

$4\left(5g + \frac{4}{h}\right)\left(5g - \frac{4}{h}\right)$

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5) $196s^2 - 225$

$(14s + 15)(14s - 15)$

7) $100 - 16z^2$

$4(5 + 2z)(5 - 2z)$

9) $49 - \frac{256}{t^2}$

$\left(7 + \frac{16}{t}\right)\left(7 - \frac{16}{t}\right)$

10) $9k^2 - 121$

$(3k + 11)(3k - 11)$