

Name : _____

Factors: Algebraic Identity

ES3

Factorize each expression using algebraic identity.

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

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

3) $36 - k^2$

5) $s^2 - t^2$

7) $c^2d^2 - 196$

9) $169 - x^2$

10) $\frac{s^2}{t^2} - 81$

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Factors: Algebraic Identity

Factorize each expression using algebraic identity.

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

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

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

$$(12 + uv)(12 - uv)$$

3) $36 - k^2$

$$(6 + k)(6 - k)$$

5) $s^2 - t^2$

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

7) $c^2d^2 - 196$

$$(cd + 14)(cd - 14)$$

9) $169 - x^2$

$$(13 + x)(13 - x)$$

10) $\frac{s^2}{t^2} - 81$

$$\left(\frac{s}{t} + 9\right)\left(\frac{s}{t} - 9\right)$$

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