

Name : _____

Factors: Algebraic Identity

ES2

Factorize each expression using algebraic identity.

1) $\frac{1}{y^2} - \frac{1}{y} - 6$

2) $b^2 + 11b + 30$

3) $r^2 - 4r + rs -$

5) $z^2 - 9z + 14$

7) $g^2h^2 + 9gh +$

9) $u^2 + u - 56$

10) $p^2 - 2p - 3$

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Name : _____

Answer key

ES2

Factors: Algebraic Identity

Factorize each expression using algebraic identity.

1) $\frac{1}{y^2} - \frac{1}{y} - 6$

$(\frac{1}{y} - 3)(\frac{1}{y} + 2)$

2) $b^2 + 11b + 30$

$(b + 5)(b + 6)$

3) $r^2 - 4r + rs - 4s$

$(r + s)(r - 4)$

5) $z^2 - 9z + 14$

$(z - 2)(z - 7)$

7) $g^2h^2 + 9gh + 14$

$(gh + 3)(gh + 14)$

9) $u^2 + u - 56$

$(u + 8)(u - 7)$

10) $p^2 - 2p - 3$

$(p - 3)(p + 1)$

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