

Name : _____

Factoring Quadratic Expressions

ES1

Factorize each quadratic expression.

1) $p^2 - 4p - 5$

2) $g^2 + 3gh - 10h^2$

3) $15y^2 + 20y - 25$

4) $m^2 - n^2$

5) $9r^2 - 16s^2$

6) $k^2 + 7k$

7) $3u^2 - 10u + 3$

8) $2w^2 + 21w + 27$

9) $d^2 - 36$

10) $27ab - 18ac$

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Answer key

Factoring Quadratic Expressions

ES1

Factorize each quadratic expression.

1) $p^2 - 4p - 5$

$(p + 1)(p - 5)$

2) $g^2 + 3gh - 10h^2$

$(g + 5h)(g - 2h)$

3) $15y^2 + 20y - 25$

$5(3y^2 + 4y - 5)$

4) $m^2 - n^2$

$(m + n)(m - n)$

5) $9r^2 - 16s^2$

$(3r + 4s)(3r - 4s)$

6) $k^2 + 7k$

$k(k + 7)$

7) $3u^2 - 10u + 3$

$(3u - 1)(u - 3)$

8) $2w^2 + 21w + 27$

$(w + 9)(2w + 3)$

9) $d^2 - 36$

$(d + 6)(d - 6)$

10) $27ab - 18ac$

$9a(3b - 2c)$