

Name: _____ Period: _____ Date: _____

Factoring $x^2 + bx + c$ Exit Quiz

Factor the following polynomials in $x^2 + bx + c$ form.

1. $x^2 + 7x + 10$

2. $y^2 - 5y + 6$

3. $a^2 - 2a + 1$

4. $a^2 + 4a + 3$

5. $x^2 + 7x + 12$

Factoring $x^2 + bx + c$ Exit Quiz**Answer:**Factor the following polynomials in $x^2 + bx + c$ form.

1. $x^2 + 7x + 10$

Answer:

$x^2 = (x)(x)$

$10 = (2)(5)$

$7x = 2x + 5x$

$(x + 2)(x + 5)$

2. $y^2 - 5y + 6$

Answer:

$y^2 = (y)(y)$

$6 = (-1)(-6)$

$-5y = -y - 6y$

$(x - 1)(x - 6)$

3. $a^2 - 2a + 1$

Answer:

$a^2 = (a)(a)$

$1 = (-1)(-1)$

$-2a = -a - a$

$(a - 1)(a - 1)$

4. $a^2 + 4a + 3$

Answer:

$a^2 = (a)(a)$

$3 = (3)(1)$

$4a = 3a + a$

$(a + 3)(a + 1)$

5. $x^2 + 7x + 12$

Answer:

$x^2 = (x)(x)$

$12 = (3)(4)$

$7x = 3x + 4x$

$(x + 3)(x + 4)$