

**COMPETENCY 1.4**

Factors completely perfect square trinomials

Factoring perfect square trinomials

What to Know

The trinomial that results from squaring a binomial is called a perfect square trinomial. We can reverse the rules for the square of a sum and difference to get the rules for factoring.

Factoring Perfect Square Trinomials

$$a^2 + 2b + b^2 = (a + b)(a + b) = (a + b)^2$$

$$a^2 - 2b + b^2 = (a - b)(a - b) = (a - b)^2$$

Perfect square trinomials can be identified by using the following strategy.

Strategy for Identifying Perfect Square Trinomials

A trinomial is a perfect square trinomial if

1. The first and last term are of the form a^2 and b^2 .
2. The middle term is 2 or 2 times the product of a and b .

What to Understand

EXAMPLE 5:

Factor each polynomial.

a. $x^2 - 8x + 16$

b. $a^2 + 14a + 49$

c. $4x^2 + 12x + 9$

SOLUTIONS:

a. $x^2 - 8x + 16$

$$= (a - b)(a - b) = (a - b)^2$$

$$= (x - 4)(x - 4)$$

$$= (x - 4)^2$$

b. $x^2 + 14x + 49$

$$= (a + b)(a + b) = (a + b)^2$$

$$= (x + 7)(x + 7)$$

$$= (x + 7)^2$$

c. $4x^2 + 12x + 9y^2$

$$= (a + b)(a + b) = (a + b)^2$$

$$= (2x + 3y)(2x + 3y)$$

$$= (2x + 3y)^2$$

$$\sqrt{x^2} = x$$

Let $a = x$ and $b = 4$. Using the formula $(a - b)(a - b) = (a - b)^2$, substitute the values for a and b .

$$\sqrt{x^2} = x$$

Let $a = x$ and $b = 7$. Using the formula $(a + b)(a + b) = (a + b)^2$, substitute the values for a and b .

$$\sqrt{4x^2} = 2x$$

Let $a = 2x$ and $b = 3y$. Using the formula $(a + b)(a + b) = (a + b)^2$, substitute the values for a and b .

$$\sqrt{16} = 4$$

$$\sqrt{49} = 7$$

$$\sqrt{9y^2} = 3y$$

What to Process

PERFORMANCE TASK

Directions:

Look for the different perfect square trinomials found in the box. Answers might be written diagonally, horizontally, or vertically. Write your answer on the space provide below the box.

$25x^2$	$10x$	81	$18x$	x^2	4
$15x$	$16x^2$	$-24x$	9	$10x$	$28x$
$4x^2$	$-16x$	16	$15x$	25	$49x^2$
$16x^2$	49	$8x$	16	$24x^2$	9
25	$14x$	$8x$	$40x$	$30x$	$10x$
$7x$	x^2	$12x$	$25x^2$	40	$12x^2$



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