

COMPETENCY 1.4

Factors completely perfect square trinomials

Factoring perfect square trinomials



What to Know

The trinomial that results form 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 Identifing 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. $a. x^2 - 8x + 16$

SOLUTIONS: $a \cdot x^2 - 8x + 16$

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

=(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)

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

 $b \cdot a^2 + 14a + 49$

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

 $\sqrt{16} = 4$ $\sqrt{x^2} = x$

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.

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

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

 $\sqrt{49} = 7$

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

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.

25x2	10x	0.1	18x	V2	- 4
		0.1	202		
15x	16x2	-24%	9	10x	28x
$4x^2$	-16x	16	15×	25	49x2
16x2	49	8×	16	24x2	9
25	14x	8×	40x	30x	10x
7×	x2	12x	25x2	40	12x2

Performance Task In Factoring Perfect Square Trinomials

Brendan G. Carr

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