WARM UP: Which One Doesn't Belong?

Directions: Work inde	ependently, then	discuss vour	work with a	partner.

A.
$$x^2 - 9$$

B.
$$x^2 - 6x + 9$$

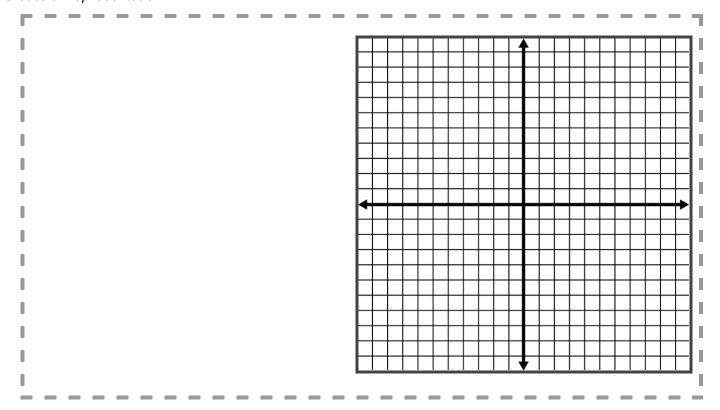
C.
$$x^2 - 5x + 6$$

_____ does not belong because _____

On the other hand, you could say that ____ does not belong because _____

EXPLORATION & WHOLE CLASS DISCUSSION: Connecting Representations

Create a Representation:



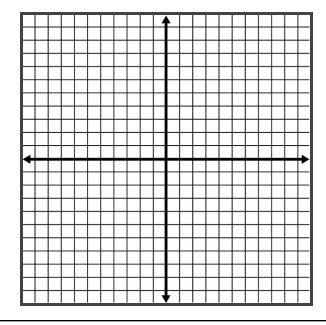
Reflection:		

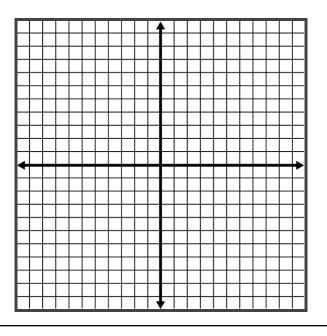
<u>APPLICATION & REFLECTION</u>: Work independently, then discuss with a partner.

Directions:

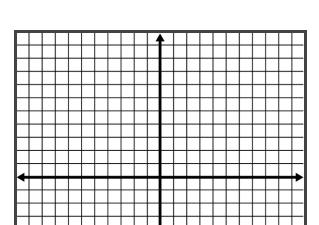
- Find the solutions of the quadratic equations using graphing and factoring. Complete #1–4, and #10. Select any two questions from #5–9 to complete.
- Check your work with the key.
- Analyze your work for each question and respond to the prompt below.

$$2. \quad 0 = x^2 + 2x + 1$$

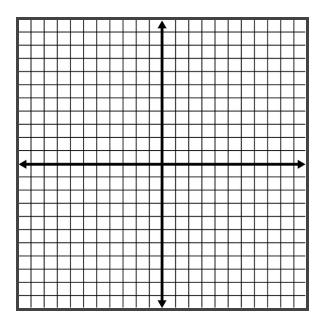




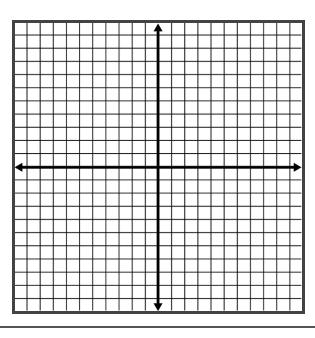
3.
$$0 = 5x^2 - 5$$



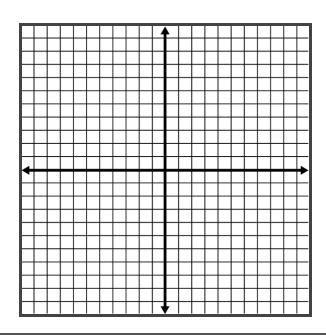
4.
$$0 = -x^2 + 1$$



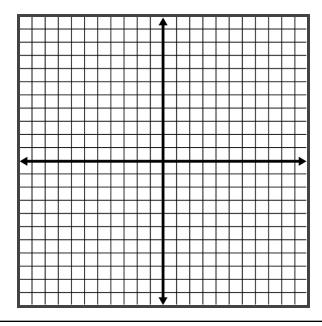
$$5. \quad 0 = x^2 + 4x + 4$$



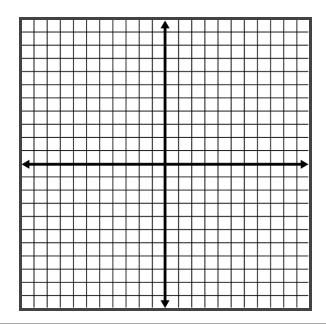
6.
$$0 = x^2 + 3x - 4$$



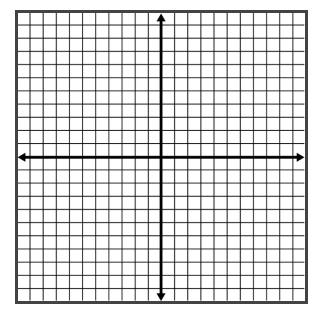
7.
$$0 = -2x^2 + 2x + 24$$



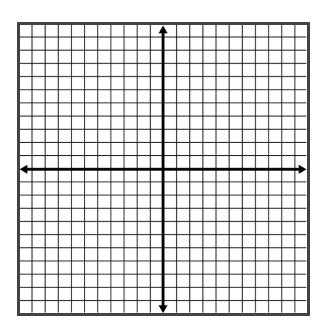
8.
$$0 = -x^2 + 6x - 9$$



9.
$$0 = x^2 + 7x + 10$$



10.
$$0 = x^2 + 2x + 3$$



How is this equation different from the others you worked on?

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CONNECTION: Unit 3

and allows us to _____

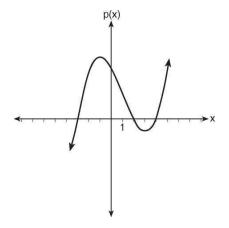
The zero product property, the zeros of a quadratic equation, and the solutions of a quadratic equation are

related because _____

REGENTS CONNECTION

Directions: Show your work and explain the reason for your selection.

- What is the same/different about these 3 questions compared to the questions we just practiced?
- Ask yourself, "What do I know (from the work I just did) that I can use?"
- **1.** Based on the graph below, which expression is a possible factorization of p(x)?



(1)
$$(x+3)(x-2)(x-4)$$

(1)
$$(x+3)(x-2)(x-4)$$
 (3) $(x+3)(x-5)(x-2)(x-4)$

(2)
$$(x-3)(x+2)(x+4)$$

(2)
$$(x-3)(x+2)(x+4)$$
 (4) $(x-3)(x+5)(x+2)(x+4)$

Answer choice ___ is correct because...