

Today's Business

1. Please hand in your extracting the roots worksheet

2. Please hand it your Graphing Quadratics with xy Trees

3. Quiz-This Week
 - a. Graphing quadratics by hand
 - b. Simplifying radicals
 - c. Solving quadratics by extracting the root

Home: _____

Problems on last slide

Study for the Quiz

Date: _____

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Bell Work

Directions: Please simplify the following.

1. $-3\sqrt{48}$

2. $\frac{3}{2\sqrt{7}}$



Directions: Please solve for x in the following equations. Give exact answers.

1. $3x^2 - 9 = 12$

2. $(2x + 3)^2 = 12$

Objectives

1. The students will comprehend the axis of symmetry for a quadratic function.
2. The students will comprehend the zero/root of a function.

Vocabulary

Axis of Symmetry -

Zero/Root -

Zero or Not?

Directions: Please determine if the following values of x are zeroes of the given function.

1. $x=1, -4, 6$ $f(x)=x^2-2x-24$

2. $x=-3, 3, 0, 9$ $f(x)=x^2-9$

Is $x = -b/a$ a root to the function $f(x) = ax^2 - bx$?

What does a zero mean graphically?

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Homework

Directions: For the following functions:

1. Compute axis of symmetry with the formula $x=-b/2a$
 2. Evaluate 5 points for the function.
 3. Note x values that are zeros.
 4. Graph the function.
 5. Graph the axis of symmetry
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1. $f(x)=x^2-4x+4$

2. $g(x)=x^2+4x$

3. $m(x)=x^2-1$

4. $h(x)=-x^2-8x-17$

Attachments

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