

Chapter 4 Mastery Test A

Directions Circle the term that correctly completes each sentence.

- The turning point of a parabola that holds water is also its _____.
 a. root b. minimum value c. radicand d. maximum value
- In $f(x) = ax^2$, the parabola will _____.
 a. hold water b. spill water c. have complex roots d. be narrow
- A parabola that opens to the right is a _____.
 a. radicand b. function c. linear equation d. relation
- In $f(x) = -ax^2 - 2$, x is the _____.
 a. maximum value b. independent variable c. dependent variable d. radicand

Directions Find the values of $f(x)$ for the given domain values.

- $f(x) = 3x^2 - 7x + 2$ _____
 $x = -2, -1, 0, 1, 2$
- $f(x) = x^2 - 5x + 6$ _____
 $x = -1, 0, 1, 2, 3$

Directions Find seven points for each function. Then sketch the parabola.

- $f(x) = 7x^2$ _____
- $f(x) = -5x^2$ _____

Directions Sketch the following parabolas. Write whether the roots are real or complex numbers.

- $f(x) = -x^2 + 3$ _____
- $f(x) = x^2 - 8$ _____

Directions Sketch each parabola and answer the question.

- Sketch a narrow parabola that spills water and has a turning point of $(0, 3)$. Will this parabola have real or complex roots?
- Sketch a parabola with real roots and a turning point of $(0, -7)$. Is the turning point a minimum or maximum value for $f(x)$?

Directions Sketch the graphs, using the function and three points: two roots and the turning point.

- $f(x) = x^2 - 2x - 8$ _____
- $f(x) = x^2 - 2x - 15$ _____

Directions Sketch the graphs, using the roots to find the function and the turning point.

- $x = -8, x = 4$
- $x = -3, x = 3$

Algebra 2 Chapter 4

JA Banks



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