9-1 Practice

Graphing Quadratic Functions

Use a table of values to graph each function. Determine the domain and range.

 $1. y = -x^2 + 2$



D: {all real numbers} R: $\{y \mid y \le 2\}$ $2xy = x^2 - 6x + 3$



D: {all real numbers} R: $\{v \mid v \ge -6\}$ $3. y = -2x^2 - 8x - 5$



D: {all real numbers} R: $\{y \mid y \le 3\}$

Find the vertex, the equation of the axis of symmetry, and the y-intercept of the graph of each function.

4.
$$y = x^3 - 9$$

$$(0, -9); x = 0; (0, -9)$$

$$5. y = -2x^2 + 8x - 5$$

$$(2,3); x=2; (0,-5)$$

6.
$$y = 4x^3 - 4x + 1$$

$$(0.5, 0); x = 0.5; (0, 1)$$

Consider each equation. Determine whether the function has a maximum or a minimum value. State the maximum or minimum value. What are the domain and range of the function?

7. $y = 5x^2 - 2x + 2$

min.; (0.2, 1.8);

D: {all real numbers}, R: $\{y \mid y \ge 1.8\}$

Graph each function.

10. $f(x) = -x^2 + 1$



 $8. y = -x^2 + 5x - 10$

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

max.; (2.5, -3.75); D: {all real numbers},

R: $\{y \mid y \le -3.75\}$

9.
$$y = \frac{3}{2}x^2 + 4x - 9$$

min.; $\left(-1\frac{1}{3}, -11\frac{2}{3};\right)$
D: {all real numbers},
R: $\left\{y \mid y \ge -11\frac{2}{3}\right\}$

12. $f(x) = 2x^3 + 8x + 1$



- 13. BASEBALL The equation h = −0.005x² + x + 3 describes the path of a baseball hit into the outfield, where h is the height and x is the horizontal distance the ball travels.
 - a. What is the equation of the axis of symmetry? x = 100
 - b. What is the maximum height reached by the baseball? 53 ft
 - c. An outfielder catches the ball three feet above the ground. How far has the ball traveled horizontally when the outfielder catches it? 200 ft

Algebra 2 Unit 1 Quadratic Functions And Radical Equations

JA Banks

Algebra 2 Unit 1 Quadratic Functions And Radical Equations:

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