Name _____ Class _____ Date _____

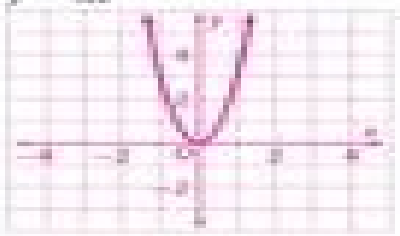
Extra Practice

Chapter 4

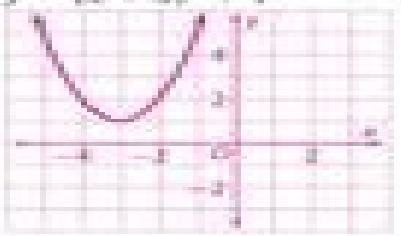
Lessons 4-1 and 4-2

Graph each system.

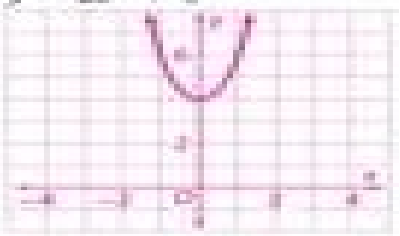
1. $y = 3x^2$



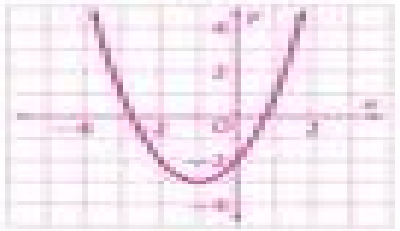
2. $y = (x + 3)^2 + 1$



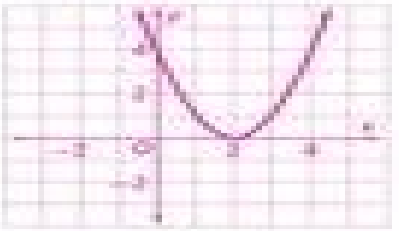
3. $y = 2x^2 + 4$



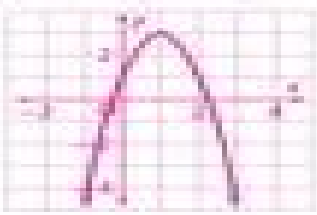
4. $y = (x + 1)^2 - 3$



5. $y = (x - 2)^2$



6. $y = -2(x - 1)^2 + 3$



Identify the vertex, axis of symmetry, minimum or maximum value, and domain and range of each function.

7. $y = 4(x - 2)^2$
(2, 0); $x = 2$; minimum: 0; domain: all real numbers; range: $y \geq 0$

8. $f(x) = (x + 1)^2 + 2$
$(-1, 2)$; $x = -1$; minimum: 2; domain: all real numbers; range: $f(x) \geq 2$

9. $y = -\frac{1}{2}(x - 4)^2 - 10$
$(4, -2)$; $x = 4$; maximum: -2; domain: all real numbers; range: $y \leq -2$

10. $f(x) = x^2 - 4x + 5$
(2, 1); $x = 2$; minimum: 1; domain: all real numbers; range: $y \geq 1$

11. $f(x) = -2x^2 + 4x - 3$
$(1, -1)$; $x = 1$; maximum: -1; domain: all real numbers; range: $y \leq -1$

12. $y = x^2 + 5x - 14$
$\left(-\frac{5}{2}, -\frac{81}{4}\right)$; $x = -\frac{5}{2}$; minimum: $-\frac{81}{4}$; domain: all real numbers; range: $y \geq -\frac{81}{4}$

13. A ball is dropped from the top of a building. The distance in meters above the ground y of the ball after t seconds can be modeled by the equation $y = -9.8t^2 + 100$.

a. What is the y-intercept of the equation? 100

b. Describe the meaning of the y-intercept of the graph of the equation. The y-intercept is the starting height of the ball.

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JA Banks

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