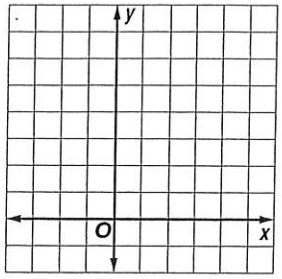
NAME _____ DATE _____ PERIOD _____

Skills Practice

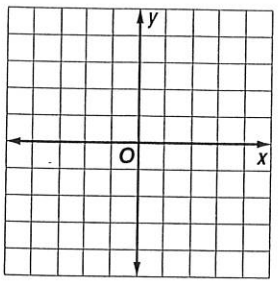
Graphing and Solving Quadratic Inequalities

Graph each inequality.

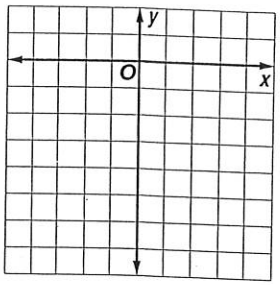
1. $y \geq x^2 - 4x + 4$



2. $y \leq x^2 - 4$

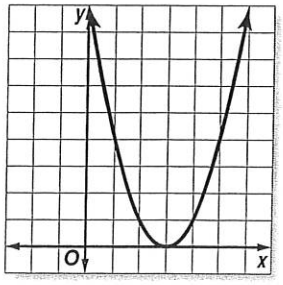


3. $y > x^2 + 2x - 5$

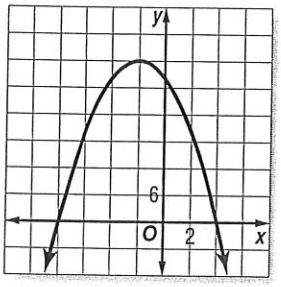


Use the graph of its related function to write the solutions of each inequality.

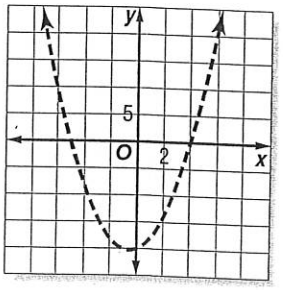
4. $x^2 - 6x + 9 \leq 0$



5. $-x^2 - 4x + 32 \geq 0$



6. $x^2 + x - 20 > 0$



Solve each inequality algebraically.

7. $x^2 - 3x - 10 < 0$

8. $x^2 + 2x - 35 \geq 0$

9. $x^2 - 18x + 81 \leq 0$

10. $x^2 \leq 36$

11. $x^2 - 7x > 0$

12. $x^2 + 7x + 6 < 0$

13. $x^2 + x - 12 > 0$

14. $x^2 + 9x + 18 \leq 0$

15. $x^2 - 10x + 25 \geq 0$

16. $-x^2 - 2x + 15 \geq 0$

17. $x^2 + 3x > 0$

18. $2x^2 + 2x > 4$

19. $-x^2 - 64 \leq -16x$

20. $9x^2 + 12x + 9 < 0$

Lesson 6-7