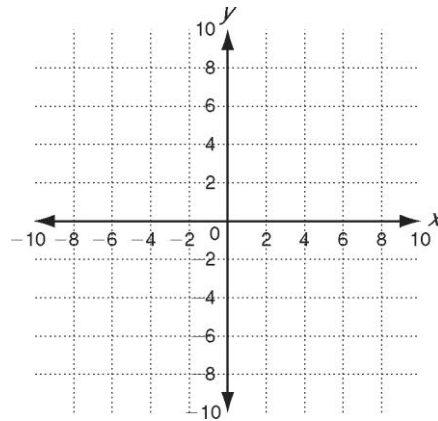
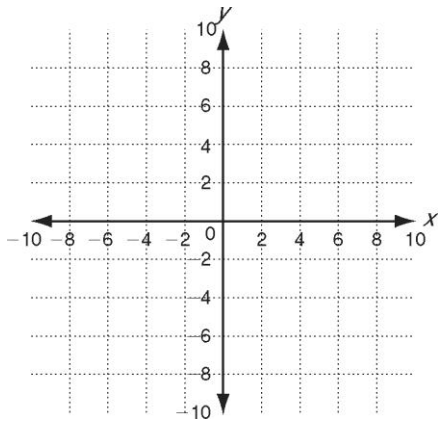


Quiz Review 5.7 & 5.9

Graph each inequality and shade the solution region.

1. $y < x^2 - 2x + 3$

2. $y \geq -x^2 + 4x - 5$



Solve each inequality by using algebra.

3. $x^2 + x - 8 \leq -6$

4. $x^2 + 10x + 25 > 9$

Find each absolute value.

5. $|6 + 2i|$

6. $|3 + i|$

7. $|3 - 4i|$

Add or subtract. Write the result in the form $a + bi$.

8. $(4i) + (2 + 8i)$

9. $(1 + 2i) + (3 + 4i)$

10. $(2 - 7i) - (5 - 3i)$

Multiply. Write the result in the form $a + bi$.

11. $2i(3 + 5i)$

12. $(3 + i)(1 - 4i)$

13. $(1 + 2i)(2 + 5i)$

Simplify.

14. $\frac{2 + 5i}{3i}$

15. $\frac{8 + 2i}{1 - 3i}$

Name _____ Date _____ Class _____