

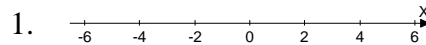
Name _____

Date _____

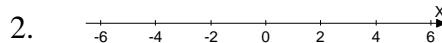
Additional Exercises 2.6
Form I
Solving Linear Inequalities

Graph the solution of the inequality on a number line.

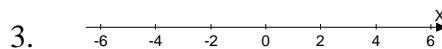
1. $x < 5$



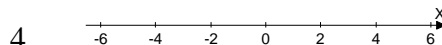
2. $x \geq -2$



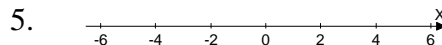
3. $x \leq -2$



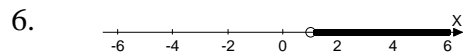
4. $2 < x < 5$



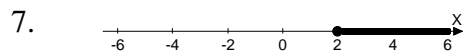
5. $2 \leq x < 5$



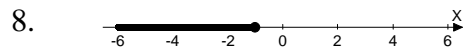
Describe the graph using set-builder notation.



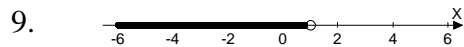
6. _____



7. _____



8. _____



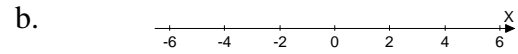
9. _____

Name _____ Date _____

Solve the inequality. Express the solution set in (a) set-builder notation and (b) graph the set on a number line.

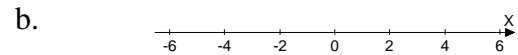
10. $x - 2 > -4$

10a. _____



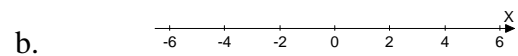
11. $7x + 6 > 6x + 8$

11a. _____



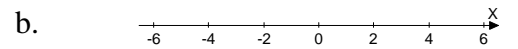
12. $-2 \leq \frac{x}{2}$

12a. _____



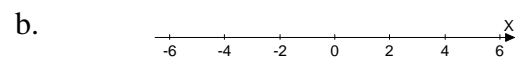
13. $7x > 21$

13a. _____



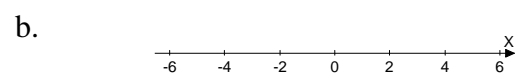
14. $15x + 15 > 3(4x + 3)$

14a. _____



15. $3x - 2 < 3(x - 5)$

15a. _____



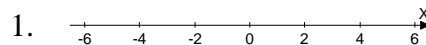
Name _____

Date _____

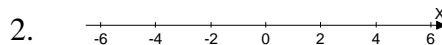
Additional Exercises 2.6
Form II
Solving Linear Inequalities

Graph the solution of the inequality on a number line.

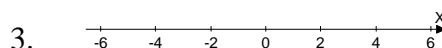
1. $x > -4$



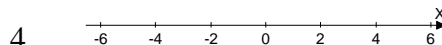
2. $x \leq 0$



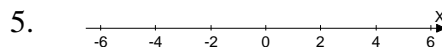
3. $x \geq 4$



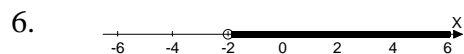
4. $-1 \leq x < 1$



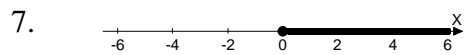
5. $-3 < x \leq 4$



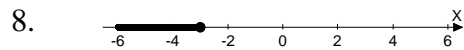
Describe the graph using set-builder notation.



6. _____



7. _____



8. _____



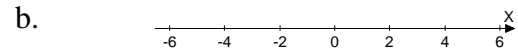
9. _____

Name _____ Date _____

Solve the inequality. Express the solution set in (a) set-builder notation and (b) graph the set on a number line.

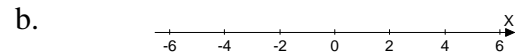
10. $x + 10 < 5$

10a. _____



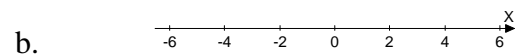
11. $-11x - 5 \leq -12x - 1$

11a. _____



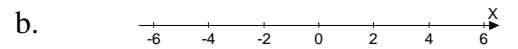
12. $-1 \geq \frac{x}{3}$

12a. _____



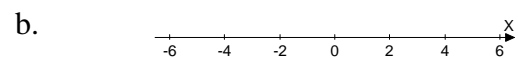
13. $8x < -16$

13a. _____



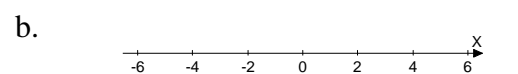
14. $-6(6x - 3) < -42x + 48$

14a. _____



15. $3(x + 2) > 3x + 4$

15a. _____



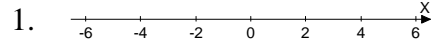
Name _____

Date _____

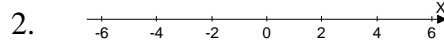
Additional Exercises 2.6
Form III
Solving Linear Inequalities

Graph the solution of the inequality on a number line.

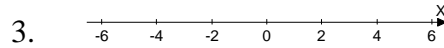
1. $x < 1$



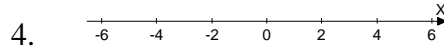
2. $x \geq -3$



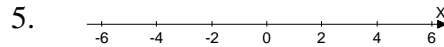
3. $x < 2$



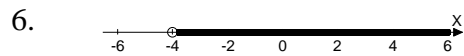
4. $-3 < x \leq 3$



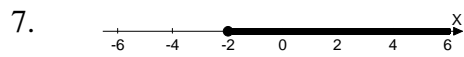
5. $-1 < x < 3$



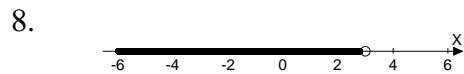
Describe the graph using set-builder notation.



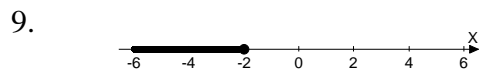
6. _____



7. _____



8. _____



9. _____

Name _____

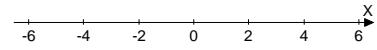
Date _____

Solve the inequality. Express the solution set in (a) set-builder notation and (b) graph the set on a number line.

10. $x + 11 < 15$

10a. _____

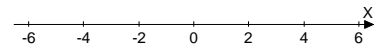
b.



11. $11 - 9x + 7 \geq -10x + 13$

11a. _____

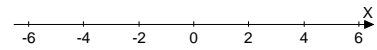
b.



12. $-2 \geq \frac{x}{-3}$

12a. _____

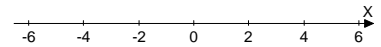
b.



13. $4x \geq -8$

13a. _____

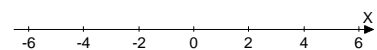
b.



14. $-14x + 6 \leq -2(6x - 1)$

14a. _____

b.



15. $5x + 4 \leq 5(x + 1)$

15a. _____

b.

