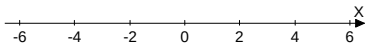
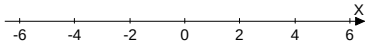
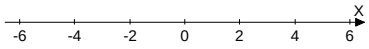
Name _____ Date _____

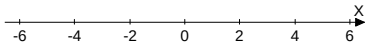
Additional Exercises 2.6
Form I
Solving Linear Inequalities

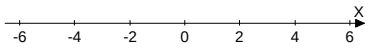
Graph the solution of the inequality on a number line.

1. $x < 5$ 1. 

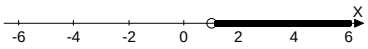
2. $x \geq -2$ 2. 

3. $x \leq -2$ 3. 

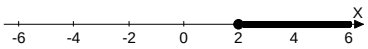
4. $2 < x < 5$ 4. 

5. $2 \leq x < 5$ 5. 

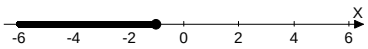
Describe the graph using set-builder notation.

6. 

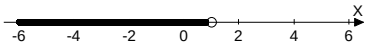
6. _____

7. 

7. _____

8. 

8. _____

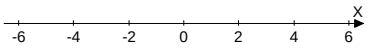
9. 

9. _____

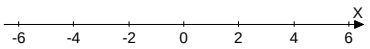
Name _____ Date _____

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

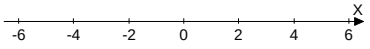
10. $x - 2 > -4$ 10a. _____

b. 

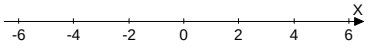
11. $7x + 6 > 6x + 8$ 11a. _____

b. 

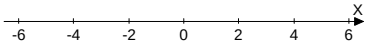
12. $-2 \le \frac{x}{2}$ 12a. _____

b. 

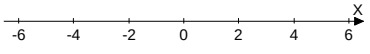
13. $7x > 21$ 13a. _____

b. 

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

b. 

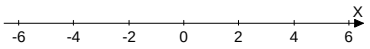
15. $3x - 2 < 3(x - 5)$ 15a. _____

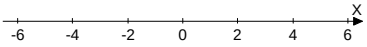
b. 

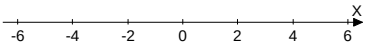
Name _____ Date _____

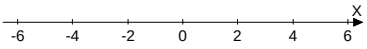
Additional Exercises 2.6
Form II
Solving Linear Inequalities

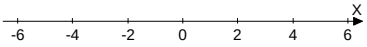
Graph the solution of the inequality on a number line.

1. $x > -4$ 1. 

2. $x \leq 0$ 2. 

3. $x \geq 4$ 3. 

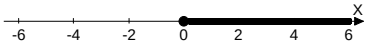
4. $-1 \leq x < 1$ 4. 

5. $-3 < x \leq 4$ 5. 

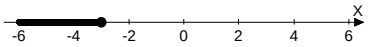
Describe the graph using set-builder notation.

6. 

6. _____

7. 

7. _____

8. 

8. _____

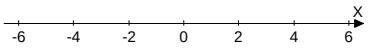
9. 

9. _____

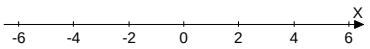
Name _____ Date _____

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

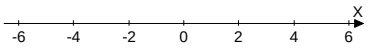
10. $x + 10 < 5$ 10a. _____

b. 

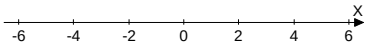
11. $-11x - 5 \leq -12x - 1$ 11a. _____

b. 

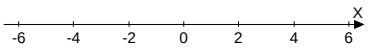
12. $-1 \geq \frac{x}{3}$ 12a. _____

b. 

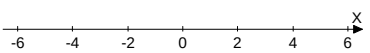
13. $8x < -16$ 13a. _____

b. 

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

b. 

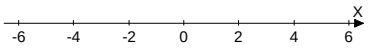
15. $3(x + 2) > 3x + 4$ 15a. _____

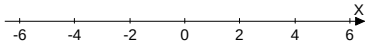
b. 

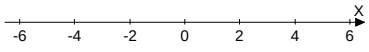
Name _____ Date _____

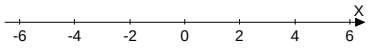
Additional Exercises 2.6
Form III
Solving Linear Inequalities

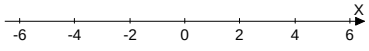
Graph the solution of the inequality on a number line.

1. $x < 1$ 1. 

2. $x \geq -3$ 2. 

3. $x < 2$ 3. 

4. $-3 < x \leq 3$ 4. 

5. $-1 < x < 3$ 5. 

Describe the graph using set-builder notation.

6. 

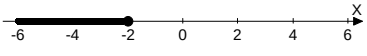
6. _____

7. 

7. _____

8. 

8. _____

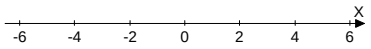
9. 

9. _____

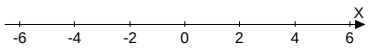
Name _____ Date _____

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

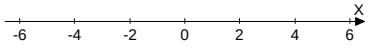
10. $x+11<15$ 10a. _____

b. 

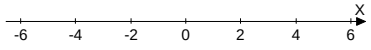
11. $11-9x+7\geq -10x+13$ 11a. _____

b. 

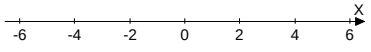
12. $-2\geq \frac{x}{-3}$ 12a. _____

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.