

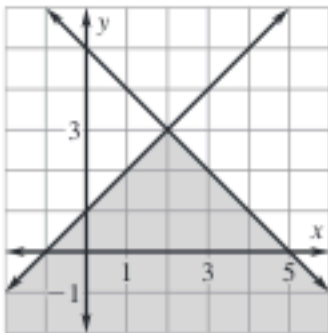
Algebra I

Worksheet 6.6

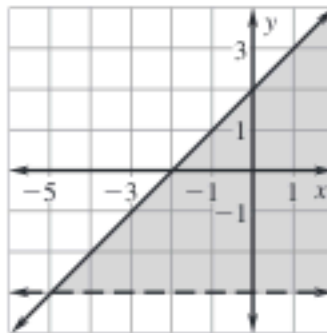
Name _____

Tell whether the ordered pair is a solution of the system of inequalities.

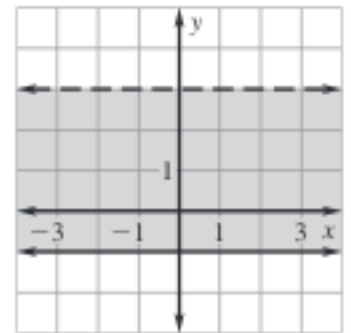
1. $(2, 1)$



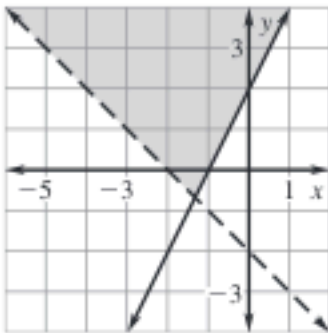
2. $(-3, 2)$



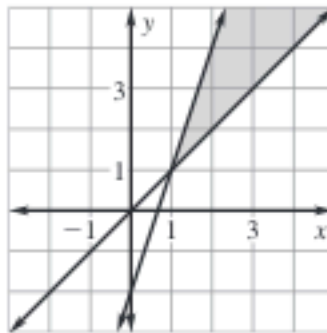
3. $(0, -1)$



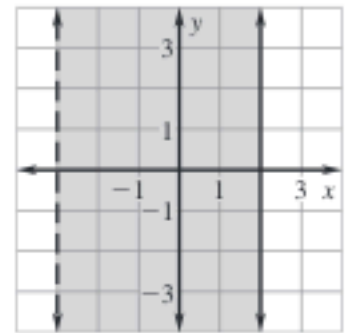
4. $(-2, 0)$



5. $(2, 4)$



6. $(-2, 3)$



Match the system of inequalities with its graph.

7. $x + y \geq 4$
 $x < 2$

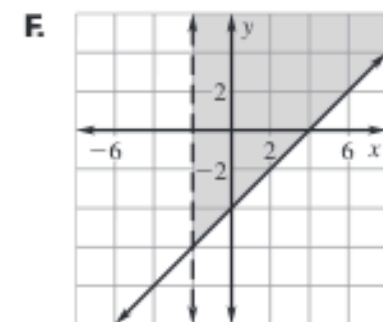
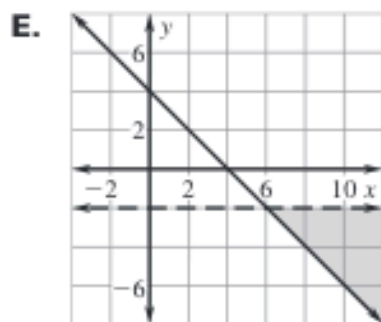
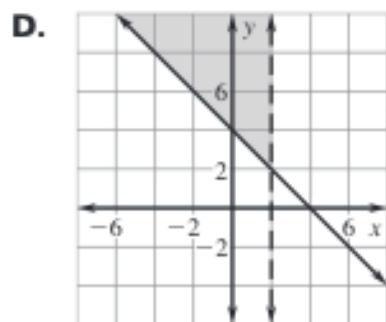
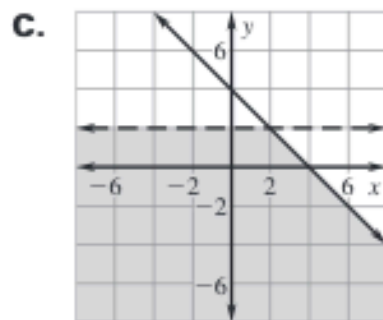
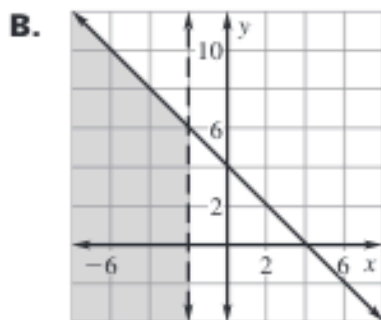
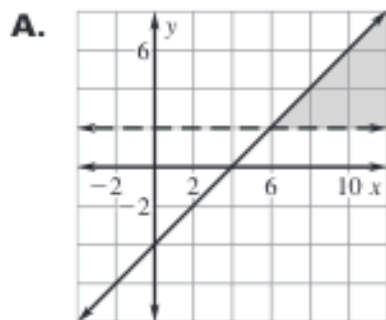
8. $x + y \leq 4$
 $x < -2$

9. $x - y \geq 4$
 $y > 2$

10. $y + x \leq 4$
 $y < 2$

11. $x - y \leq 4$
 $x > -2$

12. $y + x \geq 4$
 $y < -2$

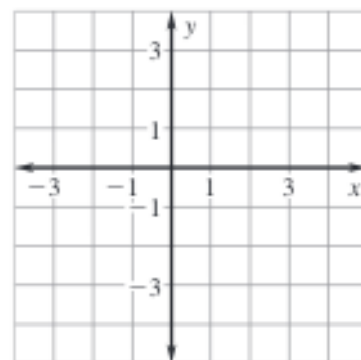
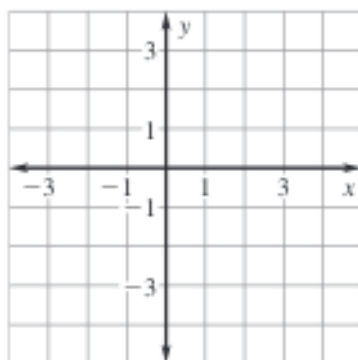
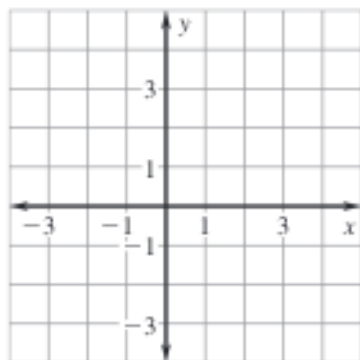


Graph the system of inequalities.

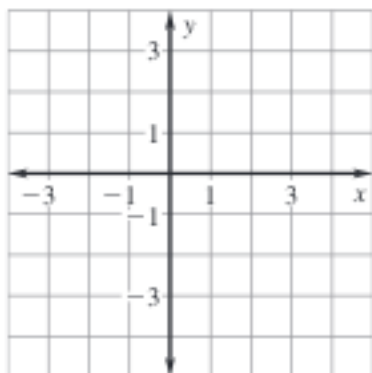
13. $x > -1$
 $x < 4$

14. $y > -3$
 $y \leq 0$

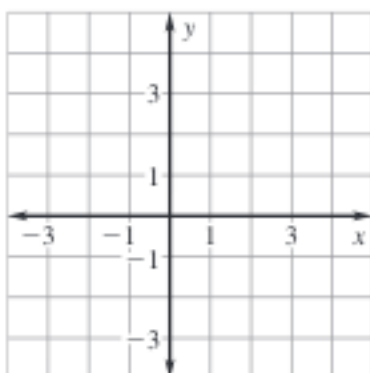
15. $x \geq 2$
 $y > 0$



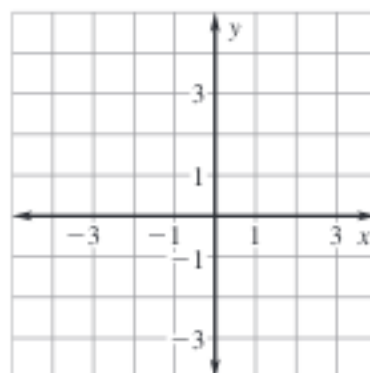
16. $x < 1$
 $y \leq -2$



17. $x > 0$
 $y \leq x$



18. $y \leq 3$
 $y > -x$



19. **Ordering Cups** You work at an Italian ice shop during the summer. You need to order 5-ounce and 8-ounce cups. The storage room will only hold 10 more boxes of cups. A box of 5-ounce cups costs \$15 and a box of 8-ounce cups costs \$18. A maximum of \$90 is budgeted for cups.

- Let x represent the number of boxes of 5-ounce cups and let y represent the number of boxes of 8-ounce cups. Write a system of linear inequalities for the number of cups that can be bought.
- Graph the system of inequalities.
- Identify two possible combinations of cups you can buy.

