Match the system of linear inequalities with its graph.

1. \( x + y > 2 \)
   \( 2x - 3y < 1 \)
   A.

2. \( x + y \geq 2 \)
   \( 2x - 3y > 1 \)
   B.

3. \( x + y > 2 \)
   \( 2x - 3y > 1 \)
   C.

Graph the system of linear inequalities.

4. \( x > -2 \)
   \( y \leq 4 \)

5. \( y < 2 \)
   \( y > -3 \)

6. \( y \geq 0 \)
   \( x < 5 \)

7. \( x + y < 3 \)
   \( 2x - y > 5 \)

8. \( y \leq 2x \)
   \( x < 3 \)

9. \( 2x + y \leq -1 \)
   \( y > 3x \)

10. \( x + 2y > 4 \)
    \( x - 3y < 1 \)

11. \( y \leq 5 \)
    \( x > -3 \)
    \( y \leq 2x - 2 \)

12. \( x \geq -3 \)
    \( x \leq 4 \)
    \( y < x + 5 \)

13. \( y > \frac{1}{2}x - 4 \)
    \( y \leq -x + 3 \)
    \( y \leq 2x \)

14. \( x + y < 1 \)
    \( 2x - y < 4 \)
    \( x \geq -2 \)

15. \( y \geq 3x - 4 \)
    \( y \leq -\frac{1}{2}x + 3 \)
    \( x > -2 \)

16. \( 2x + y < 3 \)
    \( x - y > -6 \)
    \( y \geq 0 \)

17. \( x + 2y \leq 10 \)
    \( 2x + y \leq 8 \)
    \( 2x - 5y < 20 \)

18. \( -2x + y > 1 \)
    \( x + 2y < 4 \)
    \( x - 2y > -4 \)

19. **Field Trip**  Your class has rented buses for a field trip. Each bus seats 44 passengers. The rental company’s policy states that you must have at least 3 adult chaperones on each bus. Let \( x \) represent the number of students on each bus. Let \( y \) represent the number of adult chaperones on each bus. Write a system of linear inequalities that shows the various numbers of students and chaperones that could be on each bus. (Each bus may or may not be full.)

20. **Iceberg**  The diagram at the right shows the cross section of an iceberg. Write a system of inequalities that represents the portion of the iceberg that extends above the water.