Name

4-8B Lesson Master

SKILLS Objective B

In 1–8, match each sentence with its graph.

1. $r < -4$ or $r > -1$

2. $r \geq -4$ and $r \leq -1$

3. $r > -4$

4. $r \leq -4$ or $r \geq -1$

5. $r < -1$

6. $r \leq -4$ and $r < -1$

7. $r \leq -1$ and $r > -4$

8. $r \leq -4$ and $r \geq -1$

(a)

(b)

(c)

(d)

(e)

(f)

(g)

(h)

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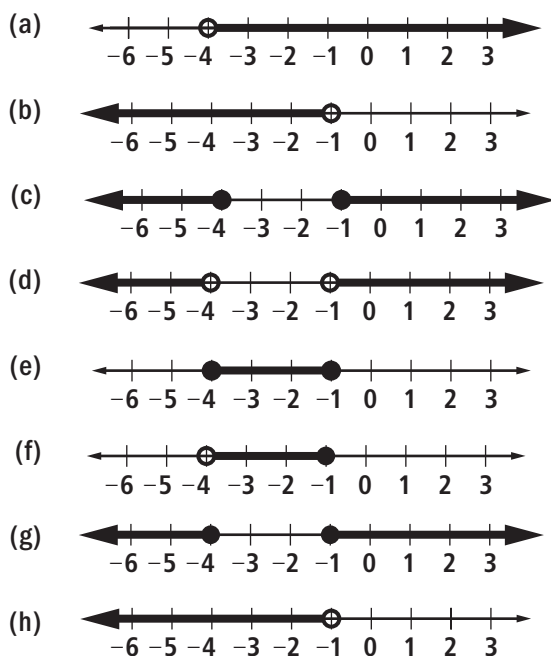
In 9 and 10, fill in the blanks to describe the interval with $\pm$ notation.

9. _____ $\pm$ _____

10. _____ $\pm$ _____

In 11–16, solve and graph on a number line.

11. $-8 < 3h - 5 \leq 1$

12. $2t < -3$ or $4t - 6 \geq t$

13. $1 > -6y - 5$ and $0 < 50 - 10y$

14. $\frac{-23}{7} \geq \frac{-6}{7}z + 1 \geq -5$

15. $3s - 10 > 2$ or $5s - 15 < -5$

16. $5x - 2 > 8$ and $-2(x + 1) \geq 4$

17. Rachel is planning a wedding for 100 to 250 people, depending on costs. She has hired a caterer that charges $20 per person, plus a flat fee of $200.

  a. Write an inequality in terms of p people that describes how many people Rachel plans to invite.

  _____

  b. Adjust that inequality to show how much the caterer will charge in terms of p.

  _____

  c. What is the range of catering fees that Rachel is considering?

  _____