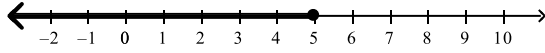
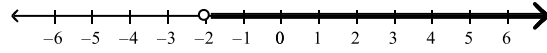


Write an inequality that is represented by the graph.

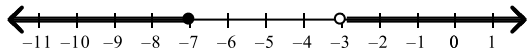
1.



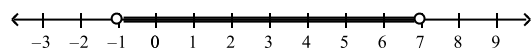
2.



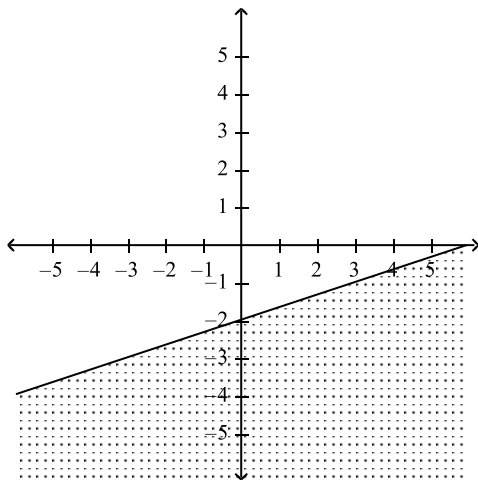
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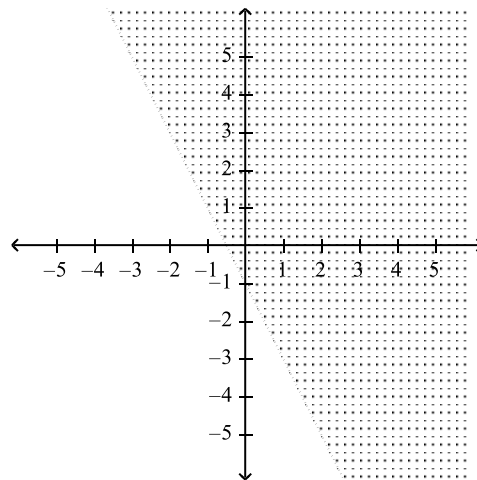
4.



5.



6.



Solve the inequality. Graph your solution.

7.  $n - 3 \leq 9$

8.  $3y \geq -4$

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$$9. \frac{w}{-4} < 8$$

$$10. 0 \geq -108b$$

---

$$11. \frac{2}{5}x > 16$$

$$12. 4x - 7 \geq 1$$

---

$$13. -22 > -2(c-1)$$

$$14. -17z + 14 \geq 11z$$

---

$$15. 10 - 12d > -5d - 4$$

$$16. 3(4 - a) > 5a + 13 - 8a$$

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$$17. 3(5 - 6x) \leq 2(11 - 9x)$$

$$18. 9 < 3x + 12 \leq 33$$

---

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19.  $x+14 < 5$  or  $-6x < -42$

20.  $-8 < -2x \leq 11$

---

21.  $6x+3 < 5x+1$  or  $\frac{1}{3}x-4 \geq -2$

22.  $9 \geq \frac{3}{4}(8x-12) \geq -15$

Write the verbal sentence as an inequality. Then solve the inequality and graph your solution.

23. Fifteen is less than or equal to the sum of  $-8$  and  $n$ .

24. The product of  $7$  and  $b$  is less than  $-35$ .

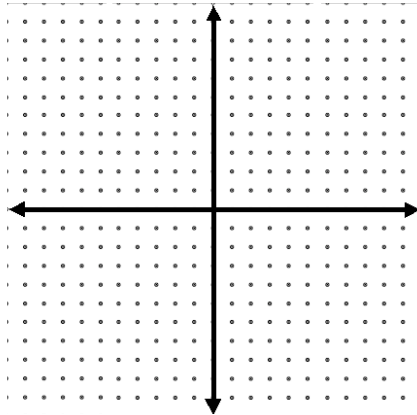
25. The difference of  $10x$  and  $3x$  is less than or equal to the sum of  $4x$  and  $21$ .

26. Three more than  $2x$  is greater than or equal to  $1$  and less than or equal to  $11$ .

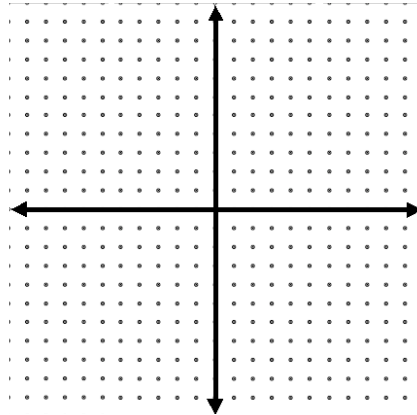
27. Three times the sum of  $x$  and  $1$  is less than  $0$  or the difference of  $x$  and  $4$  is greater than  $-3$ .

Graph the inequality.

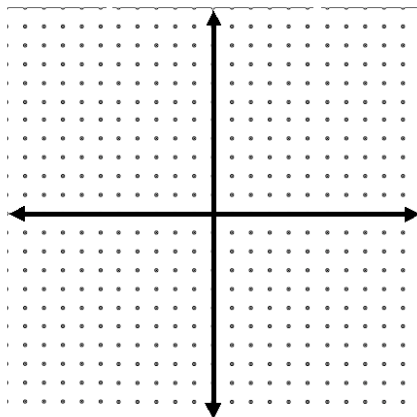
28.  $y \geq \frac{4}{3}x - 5$



29.  $4x - 2y < 8$



30.  $x > -2$



31.  $y \leq 7$

