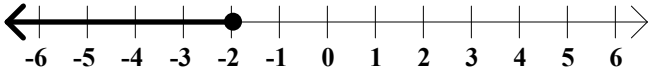


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For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

1. (a) _____

(b) _____



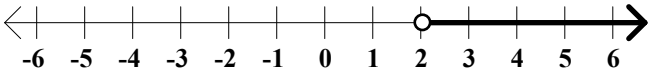
2. (a) _____

(b) _____



3. (a) _____

(b) _____



4. (a) _____

(b) _____



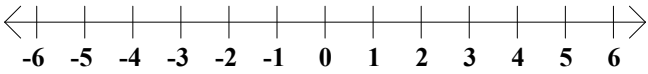
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

5. $[-2, \infty)$

(a) _____

(b) _____

(c)



6. $(3, 5)$

(a) _____

(b) _____

(c)

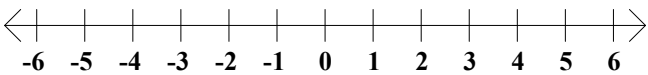


7. $(-\infty, 4]$

(a) _____

(b) _____

(c)

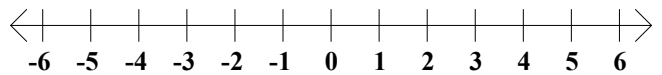


8. $[-3, 0]$

(a) _____

(b) _____

(c)

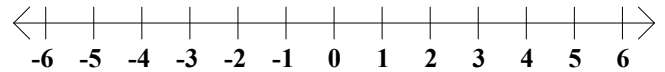
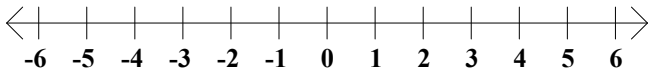


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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph. (Show your work neatly organized.)

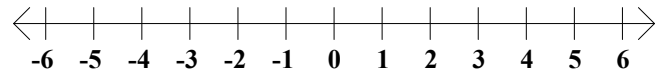
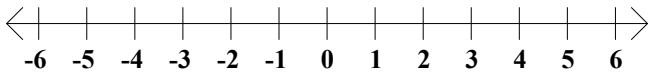
9. $6x - 15 \leq 9$

10. $2x + 7 > -1$



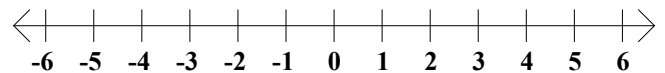
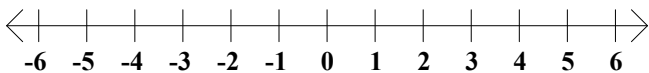
11. $-8x + 12 \leq 28$

12. $-4x - 18 > -6$



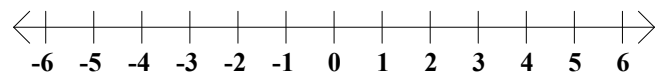
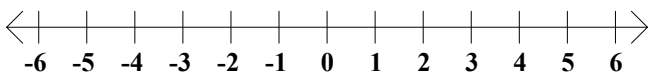
13. $7x - 8 < 2x + 7$

14. $4(3x + 2) - 2(x + 5) \geq 8$



15. $5(3x + 1) - 4(5x - 3) > 2$

16. $3(4x - 3) - 4(2x - 3) \leq 4(x - 3) - 5(2x - 1)$

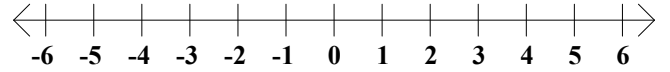
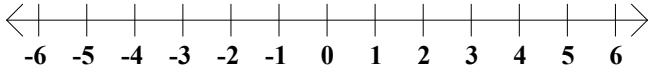


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Express each of the following as a single interval. The number lines are included to help.

17. $[1, 4) \cap (-2, 3] = \underline{\hspace{2cm}}$

18. $[1, 4) \cup (-2, 3] = \underline{\hspace{2cm}}$



19. $(-\infty, 4) \cap [-3, \infty) = \underline{\hspace{2cm}}$

20. $(-\infty, 4) \cup [-3, \infty) = \underline{\hspace{2cm}}$

