Solve each of the following equations. Express all fractions in lowest terms. Show your process neatly organized.

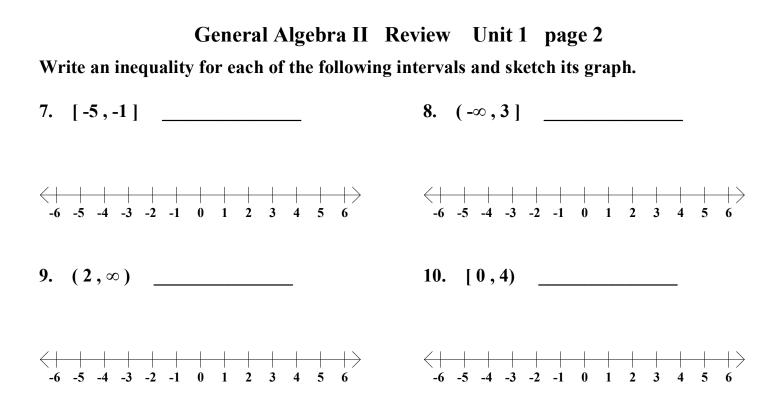
1. 8x + 3 = 15 2. 6x - 7 = 7

3. 9x + 5 = 5x + 2

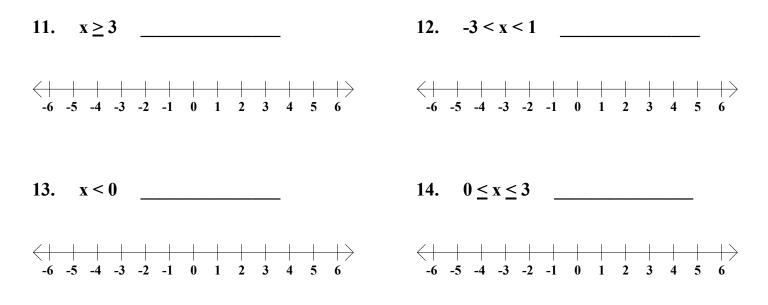
4. 11x - 8 = 2x - 5

5. 5(x-7) + 3(2x+15) = 5

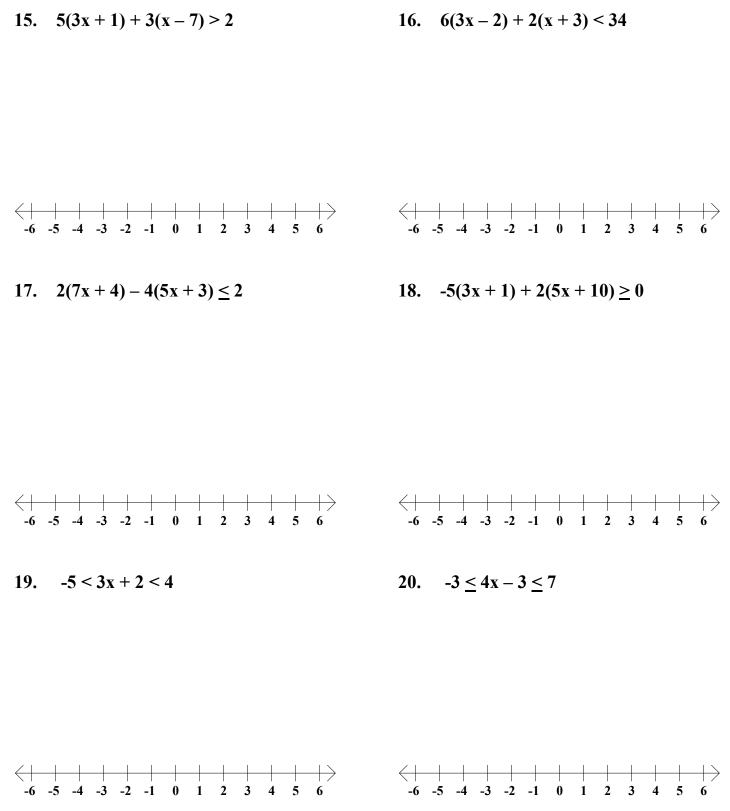
6. 8(5x+3) - 5(3x+6) = 9



Use interval notation to describe the solution set of each of the following inequalities and sketch its graph.

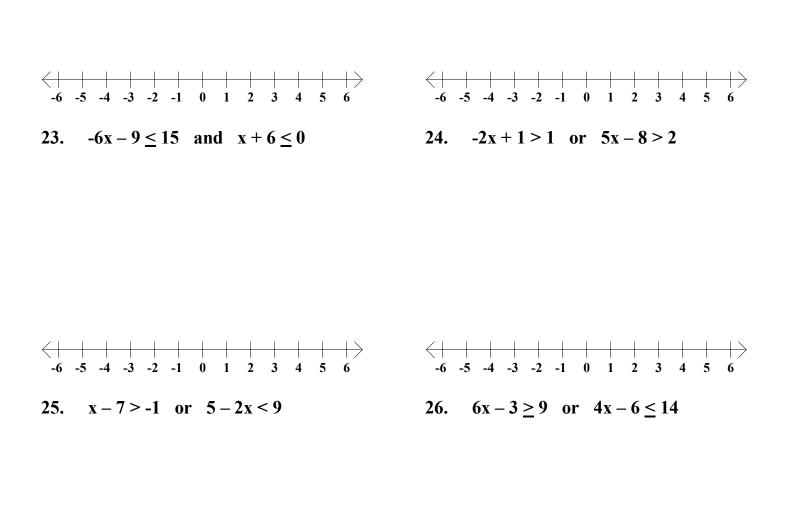


Solve each of the following for x. Write the solution set using interval notation and sketch its graph.



Solve each of the following for x. Write the solution set as an interval or the union of intervals and sketch its graph.









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Solve each of the following problems algebraically (one variable solutions please).

27. Tom, Dick, and Harry win a total of \$500. Tom wins \$10 less than 3 times the amount Harry wins. Dick wins \$30 more than twice the amount Harry wins. How much did each person win?

28. Find four consecutive odd integers whose sum is 136.

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Solve each of the following problems algebraically (one variable solutions please).

29. A collection of ordinary nickels, dimes, and quarters is worth a total of \$15. The number of nickels is 5 less than 3 times the number of dimes, and the number of quarters is 3 less than the number of dimes. How many of each are in the collection?

30. The length of a rectangle is 6 inches less than twice the width. Find the dimensions of the rectangle if its perimeter is 13 feet. Express the answers in feet and inches.