

## Algebra I Review Unit 4 page 1

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Solve for x.

1.  $x + a = b$

2.  $x - 3 = p$

3.  $4x = k$

4.  $\frac{x}{n} = 5$

5.  $3x + b = n$

6.  $ax - 2 = m$

7.  $2(x + k) = 5$

8.  $a(x - b) = 1$

9.  $ax + b = cx + d$

Solve each formula for the indicated variable.

10.  $P = 2L + 2W$  solve for  $W$

11.  $A = P + PRT$  solve for  $P$

12.  $L = K + A(N + 3)$  solve for  $N$

13.  $A - BQ = CQ$  solve for  $Q$

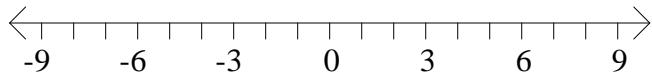
14.  $S = 2\pi RH$  solve for  $H$

15.  $A(B + C) = BC$  solve for  $C$

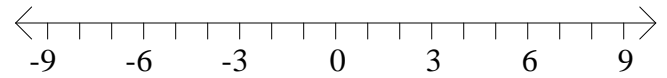
## Algebra I Review Unit 4 page 2

Solve each of the following. Graph the solution set on the number line provided.

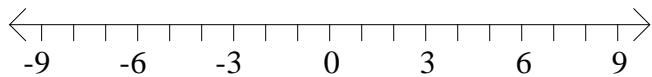
16.  $2x + 7 < 3$



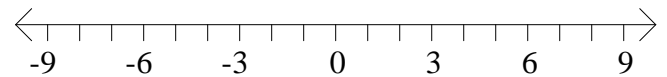
17.  $6x - 3 \geq 15$



18.  $-3x + 20 \leq 2$



19.  $-5x - 15 > 10$



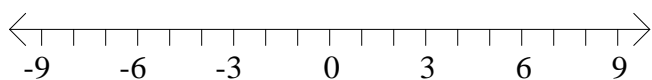
20.  $7x - 5 \leq 5x + 11$



21.  $-3x + 2 > 2x - 13$



19.  $3(2x + 1) + 5(x - 3) > 10$



20.  $2(5x + 3) - 3(6x + 1) \leq 35$

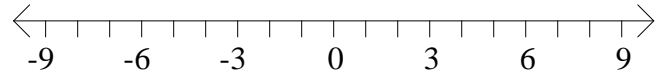
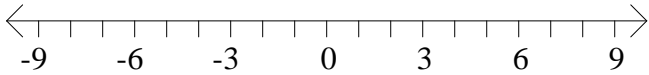


## Algebra I Review Unit 4 page 3

Solve each of the following. Graph the solution set on the number line provided.

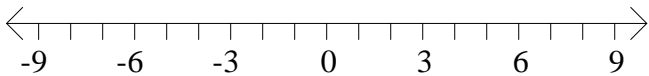
21.  $-9 \leq 3x - 6 \leq 15$

22.  $-5 < 2x + 7 < 13$



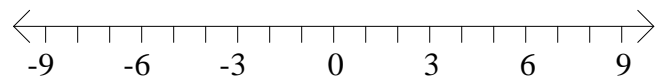
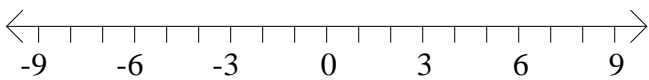
23.  $-6 \leq -4x + 10 \leq 2$

24.  $-1 < 7 - 4x < 15$



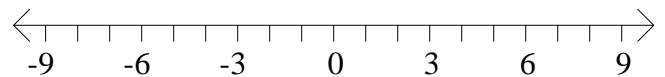
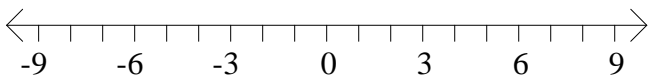
25.  $3x - 9 < 12$  and  $2x + 9 > 1$

26.  $-3x - 5 \leq 10$  and  $2x + 9 \geq 15$



27.  $4x - 10 \geq 2$  and  $7 - 3x \geq 10$

28.  $8x + 6 \geq -2$  and  $3x - 9 < 6$

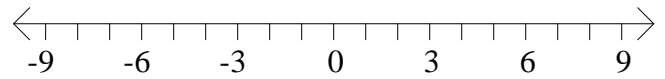
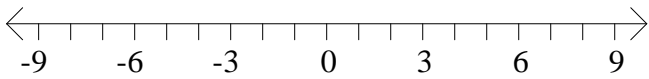


## Algebra I Review Unit 4 page 4

Solve each of the following. Graph the solution set on the number line provided.

29.  $-2x - 7 > 7$  or  $3x + 5 > 5$

30.  $3x + 8 \geq 2$  or  $-4x - 2 \leq 18$



31.  $3x - 9 \leq 15$  or  $-4x - 14 < 2$

32.  $-2x + 9 > 1$  or  $4x - 12 < 0$

