

Equations & Inequalities Review

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Solve each equation.

1) $-8b + 3 = 75$

2) $-8x + 4 = 140$

3) $\frac{r}{5} + 7 = 11$

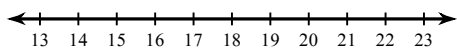
4) $-2 + 3n = 34$

5) $1\frac{1}{2}p + \frac{5}{3} = -\frac{7}{12}$

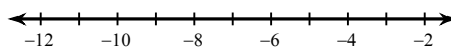
6) $-2x + \frac{1}{2} = 2\frac{3}{4}$

Solve each inequality and graph its solution.

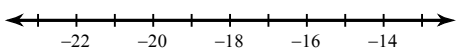
7) $3 + 10x \leq 173$



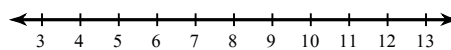
8) $5 - 3v < 17$



9) $2a + 3 > -37$



10) $-6 - 7k \geq -41$



Solve each equation.

11) $7 - 8x = 14 + 1 - 7x - 4$

12) $16 + 6p = 8p + 4 - 5p$

$$13) 3(5m - 5) = 105$$

$$14) 7(n - 6) - 5 = -82$$

$$15) 8b + 7(-5b + 1) = -22 + 2b$$

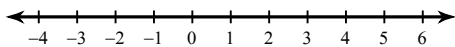
$$16) -6(n - 5) = 5n - 14$$

$$17) 2(x - 4) = -7 + 3(x + 2)$$

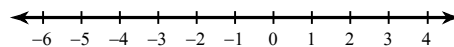
$$18) 5(v + 2) - 2(6v + 6) = -6v - 3v$$

Solve each inequality and graph its solution.

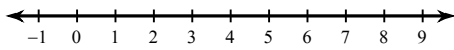
$$19) 10r + 6r \geq -16$$



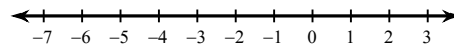
$$20) -b + 10b > -27$$



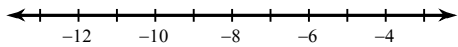
$$21) 1 + 4x \geq -3 + 7 + 3x + 3$$



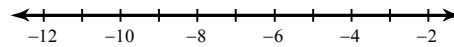
$$22) 1 + 4k \geq 9 - 4k$$



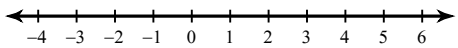
$$23) -(x + 8) > -26 - 4x$$



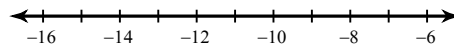
$$24) 2(n - 1) > 7n + 18$$



$$25) -(x + 1) \geq -10(4x + 4)$$



$$26) 4(1 + 2p) \geq 9(p + 9) + 6p$$



Answers to Equations & Inequalities Review

1) $\{-9\}$

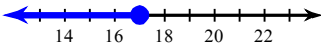
2) $\{-17\}$

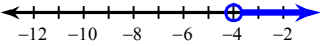
3) $\{20\}$

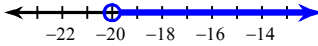
4) $\{12\}$

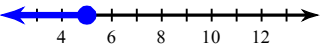
5) $\left\{-1\frac{1}{2}\right\}$

6) $\left\{-1\frac{1}{8}\right\}$

7) $x \leq 17$: 

8) $v > -4$: 

9) $a > -20$: 

10) $k \leq 5$: 

11) $\{-4\}$

12) $\{-4\}$

13) $\{8\}$

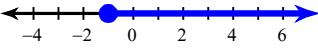
14) $\{-5\}$

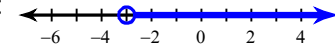
15) $\{1\}$

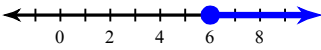
16) $\{4\}$

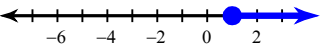
17) $\{-7\}$

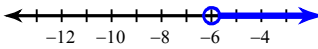
18) $\{1\}$

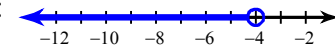
19) $r \geq -1$: 

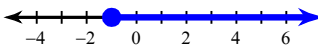
20) $b > -3$: 

21) $x \geq 6$: 

22) $k \geq 1$: 

23) $x > -6$: 

24) $n < -4$: 

25) $x \geq -1$: 

26) $p \leq -11$: 