

Assignment

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Simplify each expression.

1) $-2a(7 + 6a) + 6a$

2) $5k(1 - 5k) + 10k$

3) $-8x - 10(7x - 3)$

4) $-6n(1 + 4n) + 2n$

5) $-2(9r - 3) - 6$

6) $6(-2n - 3) - 9$

7) $2 + 10(p - 1)$

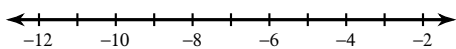
8) $10m - 2(1 - 3m)$

9) $-7(x + 2) - 6$

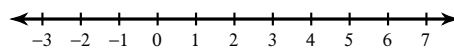
10) $-6 - (b + 8)$

Solve each inequality and graph its solution.

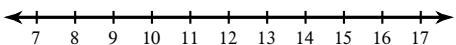
11) $-2(x + 4) < -7 - (x - 3)$



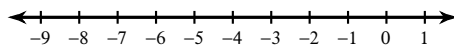
12) $8(4a + 3) \leq 6a + 6(4 - 7a)$



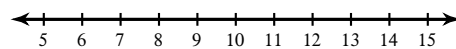
13) $-3 - 5(x + 4) > -(x - 1) - 4x$



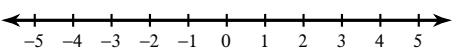
14) $-4(3 + 6n) \geq 6(1 - 4n)$



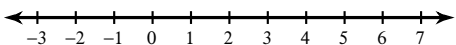
15) $7p - 1 \leq -(3 - 7p)$



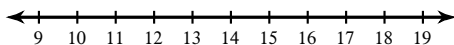
16) $3(4 - 5x) - 6(1 - 2x) \geq 5x - 5x$



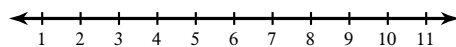
17) $7(2x + 3) + 7x > -8 - 2(x - 3)$



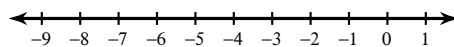
18) $25 - 12x \geq -3(4x + 4)$



19) $4(x + 1) < 4x + 20$



20) $7n + 8 + 8n \geq 4(2n - 6) + 7(n - 2)$



Assignment

Date _____ Period _____

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Simplify each expression.

$$1) -2a(7 + 6a) + 6a$$

$$-8a - 12a^2$$

$$2) 5k(1 - 5k) + 10k$$

$$15k - 25k^2$$

$$3) -8x - 10(7x - 3)$$

$$-78x + 30$$

$$4) -6n(1 + 4n) + 2n$$

$$-4n - 24n^2$$

$$5) -2(9r - 3) - 6$$

$$-18r$$

$$6) 6(-2n - 3) - 9$$

$$-12n - 27$$

$$7) 2 + 10(p - 1)$$

$$-8 + 10p$$

$$8) 10m - 2(1 - 3m)$$

$$16m - 2$$

$$9) -7(x + 2) - 6$$

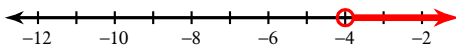
$$-7x - 20$$

$$10) -6 - (b + 8)$$

$$-14 - b$$

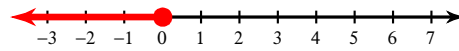
Solve each inequality and graph its solution.

$$11) -2(x + 4) < -7 - (x - 3)$$



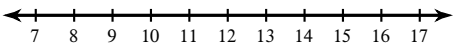
$$x > -4$$

$$12) 8(4a + 3) \leq 6a + 6(4 - 7a)$$



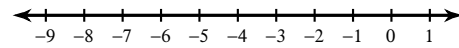
$$a \leq 0$$

$$13) -3 - 5(x + 4) > -(x - 1) - 4x$$



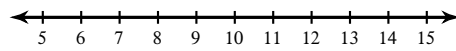
No solution.

$$14) -4(3 + 6n) \geq 6(1 - 4n)$$



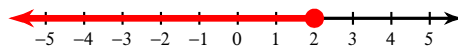
No solution.

$$15) 7p - 1 \leq -(3 - 7p)$$



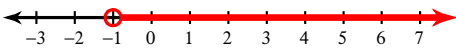
No solution.

$$16) 3(4 - 5x) - 6(1 - 2x) \geq 5x - 5x$$



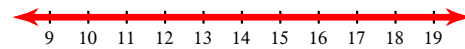
$$x \leq 2$$

$$17) 7(2x + 3) + 7x > -8 - 2(x - 3)$$



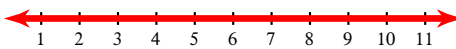
$$x > -1$$

$$18) 25 - 12x \geq -3(4x + 4)$$



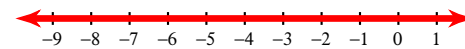
{ All real numbers. }

$$19) 4(x + 1) < 4x + 20$$



{ All real numbers. }

$$20) 7n + 8 + 8n \geq 4(2n - 6) + 7(n - 2)$$



{ All real numbers. }