

Final Exam Review Classwork

Date: _____ Hour: _____

Solve each equation.

1) $|8x - 7| + 9 = 72$

2) $1 + 2|7 - 4x| = 63$

3) $-8 - 6|7k - 1| = -44$

4) $-2|-5n + 2| - 4 = -10$

Simplify each expression.

5) $-(k - 3) - 6k(8 + 4k)$

6) $8m(8 + m) + m(4m + 3)$

7) $-(-6r - 8) - 8r(7 - 7r)$

8) $-4n(n + 1) - 2(n + 2)$

Solve each equation.

9) $0 = -(3r + 5) - (1 - r)$

10) $2(3r + 7) - (6 + 7r) = 3$

$$11) -20 = -3(3 + 7x) + 5(3 - x)$$

$$12) 26 = 3(8 + 2a) - 4(2a - 2)$$

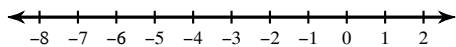
Solve each equation for the indicated variable.

$$13) z = ma - n - p, \text{ for } a$$

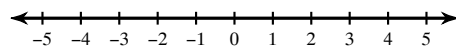
$$14) a - c = b(r + d), \text{ for } a$$

Solve each inequality and graph its solution.

$$15) -5 < -3(-1 + x) + 4(2x - 6) - 5x$$



$$16) 4 > -4(x + 6) + 2(2 + 2x)$$



Evaluate each using the values given.

$$17) (j - h)(j - j) + 6; \text{ use } h = 6, \text{ and } j = -2$$

$$18) x + y\left(z - \frac{5}{5}\right); \text{ use } x = -6, y = 6, \text{ and } z = -3$$

Final Exam Review Classwork

Date: _____ Hour: _____

Solve each equation.

1) $|8x - 7| + 9 = 72$

$$\left\{\frac{35}{4}, -7\right\}$$

2) $1 + 2|7 - 4x| = 63$

$$\left\{-6, \frac{19}{2}\right\}$$

3) $-8 - 6|7k - 1| = -44$

$$\left\{1, -\frac{5}{7}\right\}$$

4) $-2|-5n + 2| - 4 = -10$

$$\left\{-\frac{1}{5}, 1\right\}$$

Simplify each expression.

5) $-(k - 3) - 6k(8 + 4k)$

$$-49k + 3 - 24k^2$$

6) $8m(8 + m) + m(4m + 3)$

$$67m + 12m^2$$

7) $-(-6r - 8) - 8r(7 - 7r)$

$$-50r + 8 + 56r^2$$

8) $-4n(n + 1) - 2(n + 2)$

$$-4n^2 - 6n - 4$$

Solve each equation.

9) $0 = -(3r + 5) - (1 - r)$

$$\{-3\}$$

10) $2(3r + 7) - (6 + 7r) = 3$

$$\{5\}$$

$$11) -20 = -3(3 + 7x) + 5(3 - x)$$

$\{1\}$

$$12) 26 = 3(8 + 2a) - 4(2a - 2)$$

$\{3\}$

Solve each equation for the indicated variable.

$$13) z = ma - n - p, \text{ for } a$$

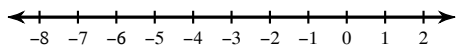
$$a = \frac{z + n + p}{m}$$

$$14) a - c = b(r + d), \text{ for } a$$

$$a = br + bd + c$$

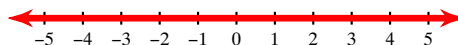
Solve each inequality and graph its solution.

$$15) -5 < -3(-1 + x) + 4(2x - 6) - 5x$$



No solution.

$$16) 4 > -4(x + 6) + 2(2 + 2x)$$



{ All real numbers. }

Evaluate each using the values given.

$$17) (j - h)(j - j) + 6; \text{ use } h = 6, \text{ and } j = -2$$

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$$18) x + y\left(z - \frac{5}{5}\right); \text{ use } x = -6, y = 6, \text{ and } z = -3$$

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