

## Semester Exam Review 2018

Date \_\_\_\_\_ Period \_\_\_\_\_

**Evaluate each expression.**

1)  $4 - (-7)$

2)  $8 + (-1)$

3)  $(-7) - 2$

4)  $2 - 4$

**Find each product.**

5)  $(10)(9)(-3)$

6)  $(-5)(-8)(10)$

**Find each quotient.**

7)  $-24 \div 4$

8)  $\frac{50}{10}$

**Evaluate each expression. - Don't forget the order of operations!**

9)  $6 + -2 - 3$

10)  $-4 + 6 - 5 \cdot -6$

11)  $\frac{-4}{-1} - 5$

12)  $(2 - -4) \cdot 2 - 5$

**Solve each equation.**

$$13) 4 = \frac{p}{8}$$

$$14) 3 = x + 6$$

$$15) 10n = 70$$

$$16) b - 4 = -6$$

$$17) -1 + \frac{n}{2} = 1$$

$$18) 5p - 2 = -42$$

$$19) \frac{-4 + n}{9} = -1$$

$$20) -4n + 4 = 28$$

$$21) 1 + 5b = -44$$

$$22) 3(x + 2) = 33$$

$$23) 7 + 3r = 7 - 5r$$

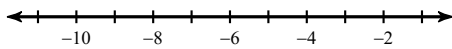
$$24) 3x + 11 = x - 1$$

$$25) 1 - 3n = 3 - 4n$$

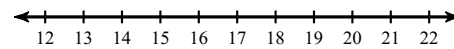
$$26) -4 - 2n = 5 + n$$

**Solve each inequality and graph its solution.**

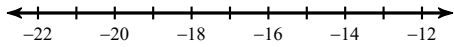
$$27) x - 14 \geq -20$$



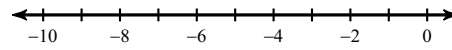
$$28) 9 < \frac{a}{2}$$



$$29) -12 \leq -8 + \frac{r}{5}$$



$$30) 5x + 10 > -25$$



**Simplify each expression.**

$$31) (x + 7) + (5x - 8)$$

$$32) (8x - 2x^2) - (2x^2 + 6x)$$

**Find each product. (Hint: Use the box!)**

$$33) 4x^4(5x + 4)$$

$$34) 3x^3(5x + 1)$$

$$35) (x + 1)(4x + 3)$$

$$36) (x + 4)(5x - 3)$$

## Answers to Semester Exam Review 2018 (ID: 1)

1) 11

3) -9

5) -270

7) -6

9) 1

11) -1

13) {32}

15) {7}

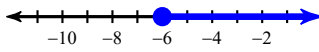
17) {4}

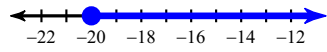
19) {-5}

21) {-9}

23) {0}

25) {2}

27)  $x \geq -6$  :  A number line with tick marks from -10 to -2. A solid blue circle is at -6, and a blue arrow points to the right from this circle.

29)  $r \geq -20$  :  A number line with tick marks from -22 to -12. A solid blue circle is at -20, and a blue arrow points to the right from this circle.

31)  $6x - 1$

33)  $20x^5 + 16x^4$

35)  $4x^2 + 7x + 3$