

Semester Exam Review 2020

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

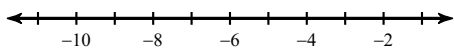
24) $3x + 11 = x - 1$

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

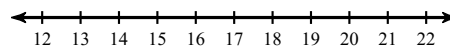
26) $-4 - 2n = 5 + n$

Solve each inequality and graph its solution.

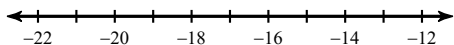
27) $x - 14 \geq -20$



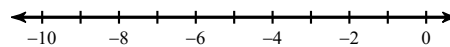
28) $9 < \frac{a}{2}$



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) $2x(x + 1)$

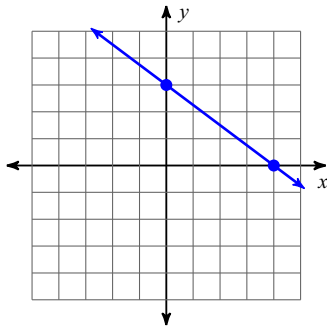
34) $3x^3(5x + 1)$

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

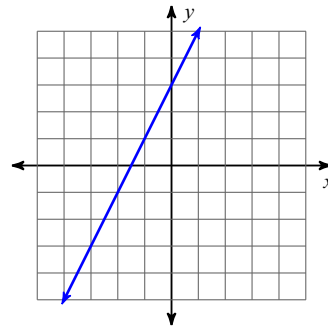
36) $(x + 4)(5x - 3)$

Find the slope of each line.

37)



38)

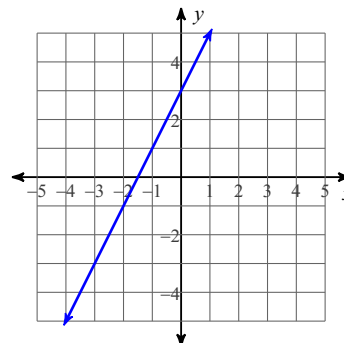


Write the slope-intercept form of the equation of each line given the slope and y-intercept.

39) Slope = $\frac{3}{2}$, y-intercept = 1

Write the slope-intercept form of the equation of each line.

40)



Answers to Semester Exam Review 2020 (ID: 1)

1) 11

3) -9

5) -270

7) -6

9) 1

11) -1

13) {32}

15) {7}

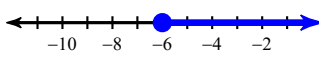
17) {4}

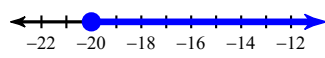
19) {-5}

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) $2x^2 + 2x$

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

37) $-\frac{3}{4}$

39) $y = \frac{3}{2}x + 1$