Algebra 1a - Mr. Allen-Black & Mrs. Gulamali Name_____ ID: 1

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

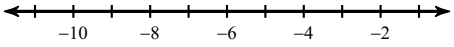
24) $3x + 11 = x - 1$

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

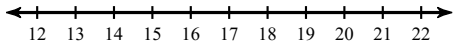
26) $-4 - 2n = 5 + n$

Solve each inequality and graph its solution.

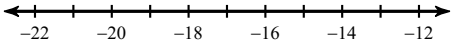
27) $x - 14 \geq -20$



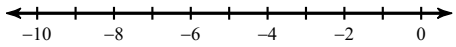
28) $9 < \frac{a}{2}$



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) $2x(x+1)$

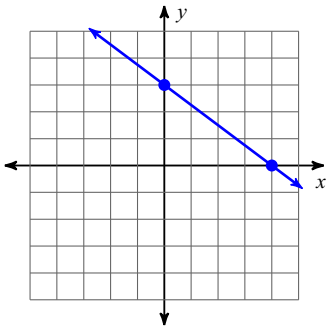
34) $3x^3(5x+1)$

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

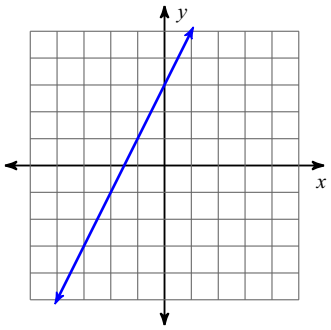
36) $(x+4)(5x-3)$

Find the slope of each line.

37)



38)

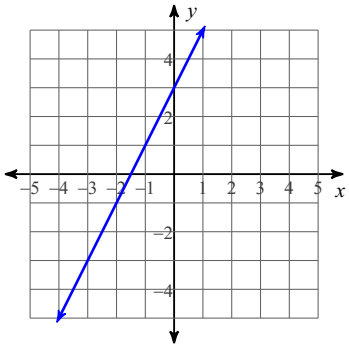


Write the slope-intercept form of the equation of each line given the slope and y-intercept.

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

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

40)



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Evaluate each expression.

1) $4 - (-7)$

11

2) $8 + (-1)$

7

3) $(-7) - 2$

–9

4) $2 - 4$

–2

Find each product.

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

–270

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

400

Find each quotient.

7) $-24 \div 4$

–6

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

5

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

9) $6 + -2 - 3$

1

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

32

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

-1

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

7

Solve each equation.

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

$\{32\}$

14) $3 = x + 6$

$\{-3\}$

15) $10n = 70$

$\{7\}$

16) $b - 4 = -6$

$\{-2\}$

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

$\{4\}$

18) $5p - 2 = -42$

$\{-8\}$

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

$\{-5\}$

20) $-4n + 4 = 28$

$\{-6\}$

21) $1 + 5b = -44$

$\{-9\}$

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

$\{9\}$

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

$\{0\}$

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

$\{-6\}$

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

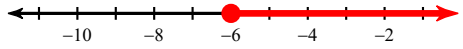
$\{2\}$

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

$\{-3\}$

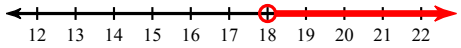
Solve each inequality and graph its solution.

27) $x - 14 \geq -20$



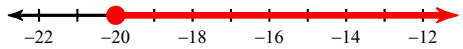
$x \geq -6$

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



$a > 18$

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



$r \geq -20$

30) $5x + 10 > -25$

$x > -7$

Simplify each expression.

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

$6x - 1$

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

$2x - 4x^2$

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

33) $2x(x+1)$

$2x^2 + 2x$

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

$15x^4 + 3x^3$

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

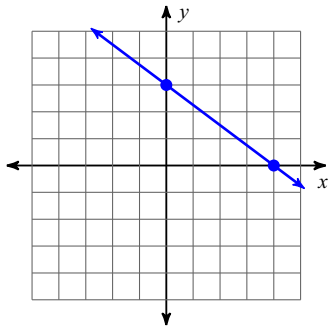
$4x^2 + 7x + 3$

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

$5x^2 + 17x - 12$

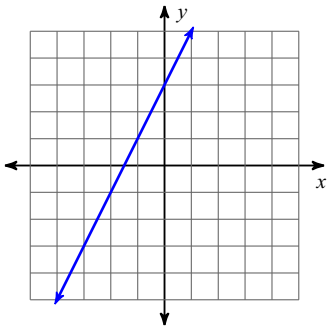
Find the slope of each line.

37)



$-\frac{3}{4}$

38)



2

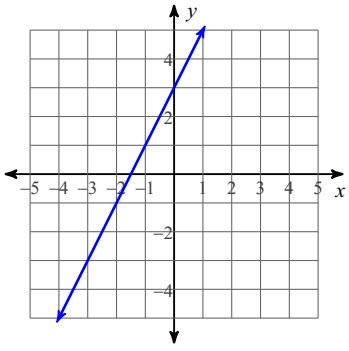
Write the slope-intercept form of the equation of each line given the slope and y-intercept.

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

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

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

40)



$y = 2x + 3$