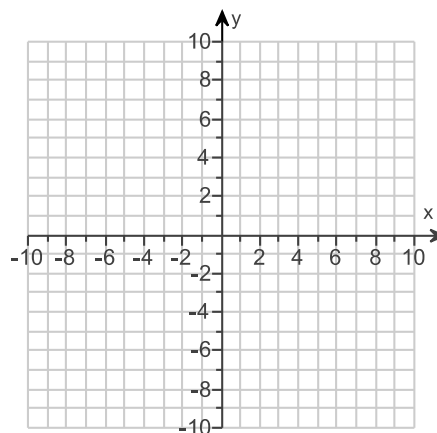


Student: _____**Instructor:** Ray Brown**Assignment:** HW 3.1 to 3.5 Review**Date:** _____**Course:** FRCC MAT 050.603 Sp17a

1. Use the slope-intercept form to graph the equation
 $y = -5x + 5$.

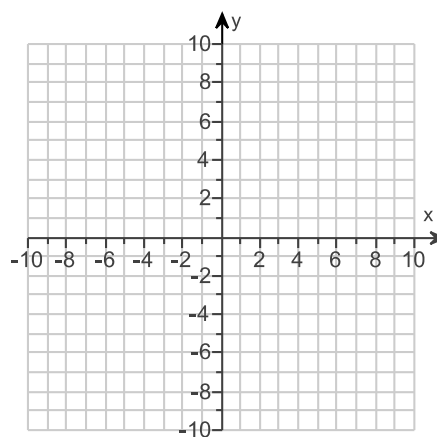
Use the graphing tool to graph the line. Use the slope and y-intercept when drawing the line.



2. Use the slope-intercept form to graph the equation

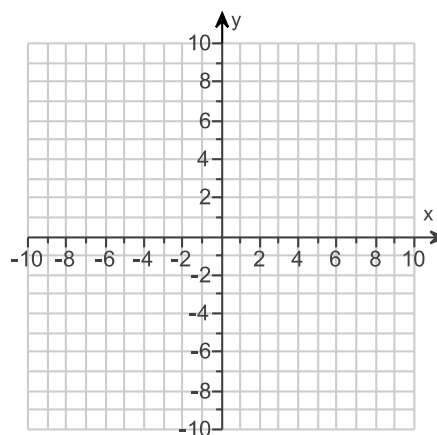
$$y = -\frac{5}{2}x - 1.$$

Use the graphing tool to graph the line. Use the slope and y-intercept when drawing the line.



3. Use the slope-intercept form to graph the equation
 $3x + y = -5$.

Use the graphing tool to graph the line. Use the slope and y-intercept when drawing the line.



4. Find an equation of the line with the given slope that passes through the given point. Write the equation in the form $Ax + By = C$.

$$m = 4, (8,8)$$

The equation of the line in the form $Ax + By = C$ is _____.

(Simplify your answer. Use integers or fractions for any numbers in the equation.)

5. Find an equation of the line passing through the pair of points. Write the equation in the form $Ax + By = C$.

$$(2,5), (-2, -2)$$

The equation of the line in the form $Ax + By = C$ is _____.
(Simplify your answer. Use integers or fractions for any numbers in the equation.)

6. Find an equation of the line passing through the pair of points. Write the equation in slope-intercept form.

$$(7,6), \text{ and } (6,7)$$

$$y = \underline{\hspace{2cm}}$$

7. Find an equation parallel to $y = 0$ and passing through $(3, -4)$.

The equation is _____. (Type your answer in standard form.)

8. Evaluate the expression with the given replacement values.

$$2xy^3 \text{ when } x = 4 \text{ and } y = -3$$

The answer is _____.

9. Use the product rule to simplify the expression. Write the result using exponents.

$$(2x^2)(3x)$$

$$(2x^2)(3x) = \underline{\hspace{2cm}}$$

10. Use the power rule and the power of a product or quotient rule to simplify the expression.

$$(-6a^3b^6c)^2$$

$$(-6a^3b^6c)^2 = \underline{\hspace{2cm}} \text{ (Type your answer using exponential notation.)}$$

11. Use the quotient rule and simplify the expression.

$$\frac{(-4)^8}{(-4)^6}$$

$$\frac{(-4)^8}{(-4)^6} = \underline{\hspace{2cm}}$$

12. Use the quotient rule and simplify the expression. Assume that all bases are not equal to 0.

$$\frac{3x^2y^6}{6x^2y^2}$$

$$\frac{3x^2y^6}{6x^2y^2} = \underline{\hspace{2cm}}$$

(Simplify your answer. Type your answer using exponential notation. Type an integer or a fraction.)

13. Simplify the expression. Assume that all bases are not equal to 0.

$$9^0 + 6^0 + y^0$$

$$9^0 + 6^0 + y^0 = \underline{\hspace{2cm}}$$

14. Evaluate the expression.

$$-g^2$$

$$-g^2 = \underline{\hspace{2cm}}$$

15. Simplify. Use positive exponents for any variables. Assume that all bases are not equal to 0.

$$6x^{-1}$$

$$6x^{-1} = \underline{\hspace{2cm}} \text{ (Simplify your answer.)}$$

16. Simplify the following expression.

$$4^{-1} + 5^{-1}$$

$$4^{-1} + 5^{-1} = \underline{\hspace{2cm}} \text{ (Type a simplified fraction.)}$$

17. Simplify the expression. Write the result using positive exponents only. Assume that all bases are not equal to 0.

$$\frac{p^3 p}{p^{-6}}$$

$$\frac{p^3 p}{p^{-6}} = \underline{\hspace{2cm}}$$

18. Simplify the expression. Write the result using positive exponents only. Assume that all bases are not equal to 0.

$$\frac{(x^4)^3}{x^{17}}$$

$$\frac{(x^4)^3}{x^{17}} = \underline{\hspace{2cm}}$$

19. Simplify the following expression. Write the result using positive exponents only. Assume that all bases are not equal to 0.

$$\frac{-35a^5 b}{7ab^4}$$

$$\frac{-35a^5 b}{7ab^4} = \underline{\hspace{2cm}} \text{ (Simplify your answer.)}$$

20. Simplify the expression. Write the result using positive exponents only. Assume that all bases are not equal to 0.

$$\frac{-6m^4n^{-6}}{2m^{-4}n^{-3}}$$

$$\frac{-6m^4n^{-6}}{2m^{-4}n^{-3}} = \underline{\hspace{2cm}}$$

21. Write the number in scientific notation.

49,000

49,000 = (Use the multiplication symbol in the math palette as needed.)

22. Write the number in scientific notation.

0.00000117

0.00000117 =
(Use the multiplication symbol in the math palette as needed.)

23. Write the number in standard notation.

$$5.8 \times 10^{-2}$$

$5.8 \times 10^{-2} = \underline{\hspace{2cm}}$

24. Write the following number in standard notation.

$$3.962 \times 10^5$$

$3.962 \times 10^5 = \underline{\hspace{2cm}}$

25. Evaluate the polynomial when **a.** $x = 0$ and **b.** $x = -1$.

$$x^2 - 2x - 5$$

a. (Simplify your answer.)

b. (Simplify your answer.)

26. Simplify the following expression by combining like terms.

$$5y^2 + 4 + 8y^2 - 13$$

$5y^2 + 4 + 8y^2 - 13 = \underline{\hspace{2cm}}$

27. Simplify the following polynomial by combining any like terms.

$$4ab - 5a + 9ab - 6a$$

$4ab - 5a + 9ab - 6a = \underline{\hspace{2cm}}$

28. Add.

$$(-3x + 4) + (-4x^2 + 3x + 5)$$

$$(-3x + 4) + (-4x^2 + 3x + 5) = \underline{\hspace{2cm}}$$

29. Subtract.

$$(5x + 7) - (6x - 3)$$

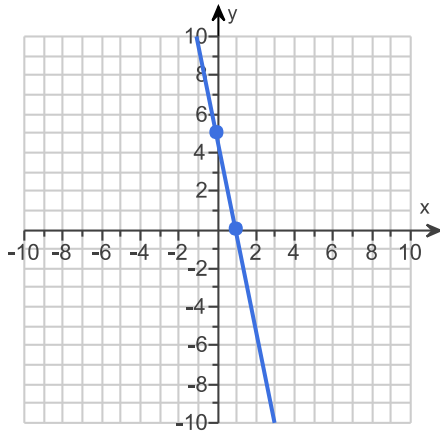
$$(5x + 7) - (6x - 3) = \underline{\hspace{2cm}} \text{ (Do not factor.)}$$

30. Add or subtract as indicated.

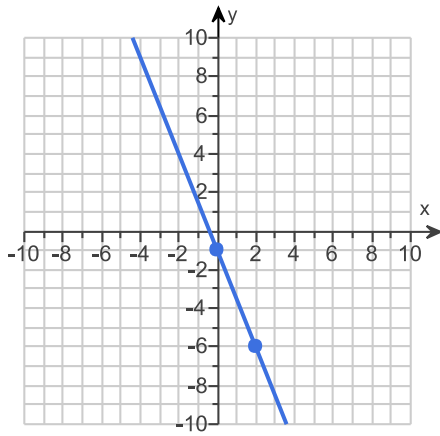
$$(x^2 + 2x + 2) - (6x^2 - 5x + 5)$$

$$(x^2 + 2x + 2) - (6x^2 - 5x + 5) = \underline{\hspace{2cm}}$$

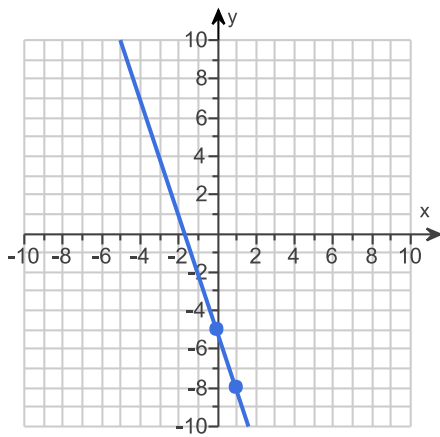
1.



2.



3.



4. $-4x + y = -24$

5. $7x - 4y = -6$

6. $-x + 13$

7. $y = -4$

8. -216

9. $6x^3$

10. $36a^6b^{12}c^2$

11. 16

12. $\frac{y^4}{2}$

13. 3

14. -81

15. $\frac{6}{x}$

16. $\frac{9}{20}$

17. p^{10}

18. $\frac{1}{x^5}$

19. $-\frac{5a^4}{b^3}$

20. $-\frac{3m^8}{n^3}$

21. 4.9×10^4

22. 1.17×10^{-6}

23. 0.058

24. 396,200

25. -5

-2

26. $13y^2 - 9$

27. $13ab - 11a$

28. $-4x^2 + 9$

29. $-x + 10$

30. $-5x^2 + 7x - 3$
