

EXIT EXAM CLASSWORK 2

NAME _____

Solve the following.

1. $-5x = 20$

2. $\frac{1}{2}x - 3 = \frac{2}{5}$

3. $5R - W = P$ for R

4. $3(2x - 3) < 15$

5. $4x + 3x = 7x - 2x + 8$

6. $4x + 9 \geq 1$

7. $D = rt$ for r

8. $-9x + 5(x + 1) > 17$

9. $2x - 9 \leq 7x + 1$

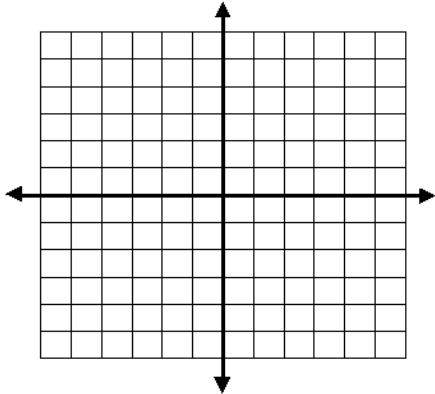
10. $M = \frac{D+X}{3}$ for D

11. Translate to an equation. Three less than twice a number is 19.
12. Translate to an equation. Five times the sum of a number and three is 70.
13. The second angle of a triangle is 3 times as large as the first. The third angle is 30° more than the first. Find the measure of each angle.
14. The sum of three consecutive integers is 63. What are the integers?
15. The perimeter of a rectangle is 26 meters. The length is five more than the width. Find the length
16. The time, t , needed to fill the gas tank of a car varies inversely as the square of the diameter, d , of the hose. If $t = 8$ min when $d = 3$ cm, find t when $d = 2$ cm.
17. An experimental drug is given to 50 people with a certain ailment. Thirty-seven of these people were cured by the drug. Select the statement of condition for the expectation of a cure C if 2000 people with the ailment are given the drug.
- a. $\frac{50}{37} = \frac{C}{2000}$ b. $\frac{50}{2000} = \frac{C}{37}$ c. $\frac{50}{2000} = \frac{37}{C}$ d. $\frac{37}{50} = \frac{2000}{C}$

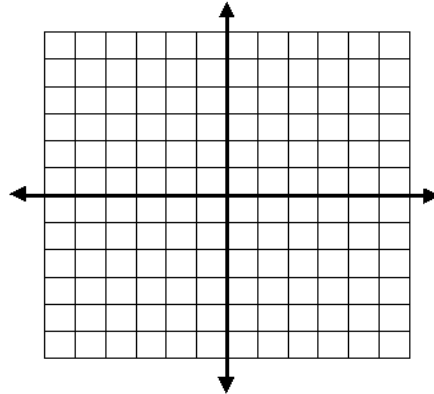
18. Find the slope of the line passing through (5, -2) and (-3, 1).

Graph the following linear equations.

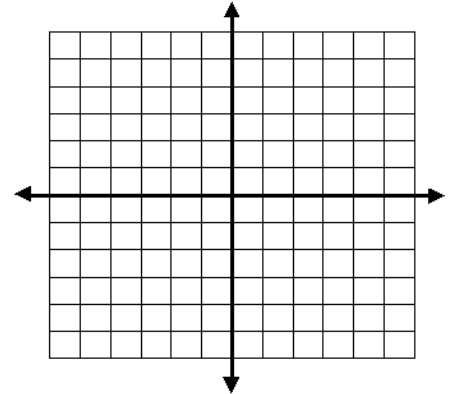
19. $x = 3$



20. $y = 2x - 5$



21. $3x + 2y = 8$



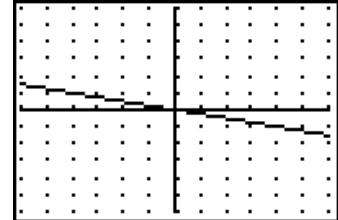
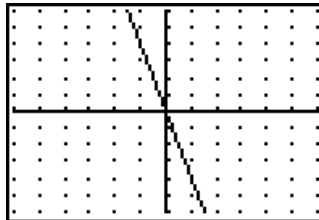
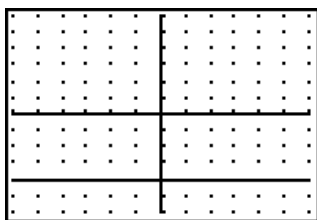
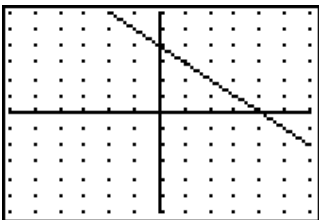
22. Match the following graphs with the appropriate equations.

a. $y = -4x$

b. $y = -4$

c. $y = -x + 4$

d. $y = -\frac{1}{4}x$



23. Find the y-intercept of $-4x + 3y = 9$

Simplify.

$$24. \frac{x^2 - 25}{5 - x}$$

Perform the indicated operation and simplify if possible.

$$25. \frac{4x + 12}{2x - 6} \cdot \frac{x - 3}{x^2 + 8x + 15}$$

$$26. \frac{4x^4}{x^2 - 1} \div \frac{2x^3}{x^2 - 2x + 1}$$

$$27. \frac{7}{3x} + \frac{2}{3x}$$

$$28. \frac{3x + 5}{x^2 + 2x - 8} - \frac{2x + 7}{x^2 + 2x - 8}$$

Simplify.

$$29. \sqrt{18x^3}$$

$$30. 3\sqrt{5} - 7\sqrt{2} + 4\sqrt{5}$$

$$31. 2\sqrt{75} - 7\sqrt{3}$$

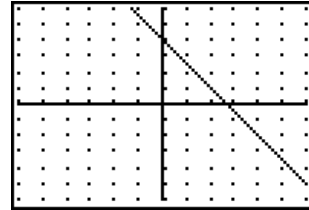
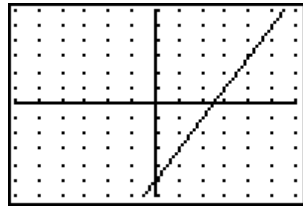
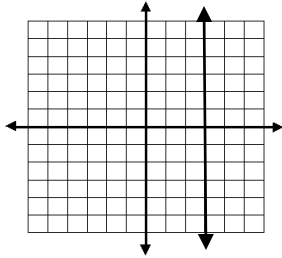
$$32. \frac{9x^2}{25}$$

$$33. (\sqrt{x} + 2)(\sqrt{x} - 5)$$

$$34. \frac{8}{\sqrt{2}}$$

Answers to final review CLASSWORK 2

1. -4 2. $\frac{34}{5}$ 3. $R = \frac{P+W}{5}$ 4. $x < 4$
 5. 4 6. $x \geq -2$ 7. $r = \frac{D}{t}$ 8. $x < -3$
 9. $x \geq -2$ 10. $D = 3M - X$ 11. $2x - 3 = 19$ 12. $5(x + 3) = 70$
 13. 30,90,60 14. 20,21,22 15. 9 m 16. 18
 17. c 18. $-\frac{3}{8}$
 19. 20. 21. 22. c, b, a, d



23. (0,3) 24. $-1(x+5)$ 25. $\frac{2}{x+5}$ 26. $\frac{2x(x-1)}{x+1}$
 27. $\frac{3}{x}$ 28. $\frac{1}{x+4}$ 29. $3x\sqrt{2x}$ 30. $7\sqrt{5} - 7\sqrt{2}$
 31. $3\sqrt{3}$ 32. $\frac{3x}{5}$ 33. $x - 3\sqrt{x} - 10$ 34. $4\sqrt{2}$