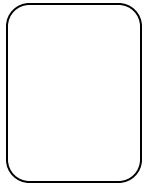


NAME: _____

GRADE: _____ / 96

DATE: ____/____/____ BLOCK: _____



Summer 2010 Math Assignment for Students Taking Geometry

This packet is a review of the math concepts for geometry. This will be your first grade of the school year 2010-2011 in your math course. It must be done written neatly in pencil and numbered on separate paper. You must show your work (step-by-step) to receive full credit for each problem. Simplify all fractions. For perimeter, area, and circumference problems, please remember to put the proper units on your answers. This work must be turned in registration day. Write your final answers on the blanks provided. Draw all lines with a ruler or straightedge. Write your final answers on the blanks and grids provided. (4 points each)

Solve the following equations.

1] $3x + 4 + 2x + 10 = 7x - 6$

1] _____

2] $\frac{4x - 2}{6} = 3$

2] _____

3] $3x^2 - 10 = 50$

3] _____

4] $x^2 - 5x + 2 = 0$

4] _____

5] $x^2 + 6x - 27 = 0$

5] _____

Solve the following systems of equations.

6] $y = 4x - 10$
 $2x - 3y = -10$

6] _____

7] $10x + 2y = 12$
 $2x - y = 8$

7] _____

8] Solve. $\frac{x - 2}{5} = \frac{x + 4}{-3}$

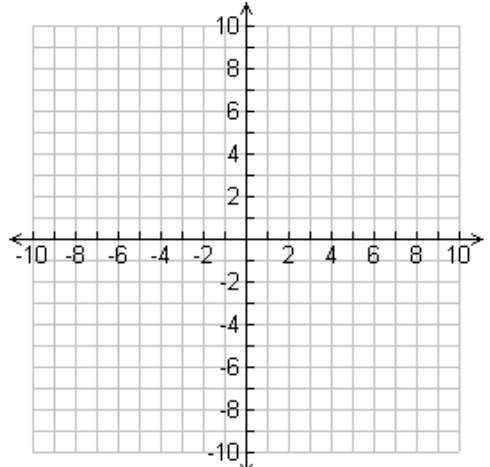
8] _____

9] Find the slope of the line containing the points $(-2, 4)$ and $(-5, 2)$. Show your work.

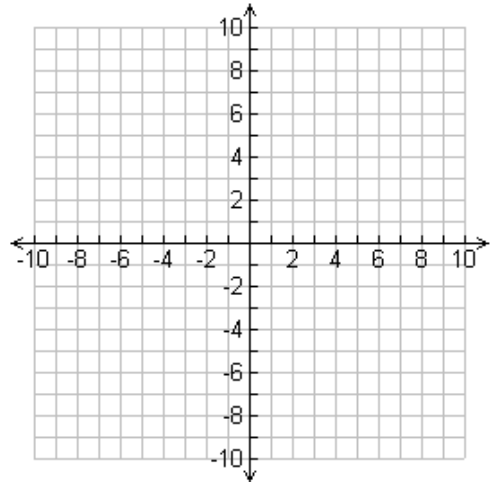
9] _____

10] Find the slope of the line perpendicular to the line $y = \frac{2}{3}x - 10$. 10] _____

11] Graph. $y = \frac{1}{2}x - 3$ 11]



12] Graph. $6x + 4y = 20$ 12]



Write the equation of a line in slope-intercept form given the following:

13] slope is 3 and y-intercept is -2 13] _____

14] slope is -4 and the line contains the point (-2,3) 14] _____

15] Write the equation of the line parallel to the line $y = \frac{1}{2}x + 2$ that passes through the point (-5, 4). 15] _____

16] Evaluate $f(x) = 2x^2 - 5x + 16$ for $f(-4)$.

16] _____

Simplify using radicals.

17] $\sqrt{75}$

17] _____

18] $\sqrt{\frac{1}{3}}$

18] _____

19] Find the missing length of the side of a right triangle if the legs have lengths of 7 and 24.

19] _____

20] Find the distance between the two points -10 and 17 on a number line.

20] _____

Find the area and perimeter of the following figures. Show your work. Remember your units.

21] Triangle with side lengths 15 and 17, base length 21 and height 4.

21] P = _____

A = _____

22] Rectangle with length 12 and width 5.

22] P = _____

A = _____

23] Square with side length 6

23] P = _____

A = _____

24] Circle with diameter 18

24] C = _____

A = _____