Classwork Alg 2A Final Exam Review 1-23-2017

1. State the solution to each compound inequality. Give your answer as a single statement, if possible.

a. $x > 3$ *OR* $x \geq 10$ b. $y < 3$ *AND* $y > 6$

c. $m \geq -1$ *AND* $m < 5$ d. $H \leq 2$ *AND* $H \leq 5$

e. $c \geq 4$ *OR* $c < 8$

2. The perimeter of a rectangle is 78 cm. The width is one less than four times the length. Write and solve an equation to find the dimensions of this rectangle.

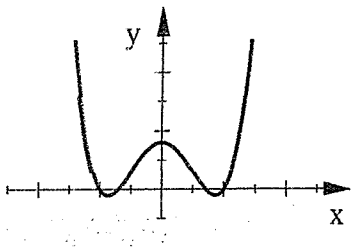
3. The ratios of the sides of a triangle are 4 : 7 : 9. The perimeter of the triangle is 26 ft. Write and solve an equation to find the dimensions of this rectangle.

4. Is each of the relations below a function?

a) $(6,-4),(5,-2),(6,1),(-8,0)$ b)

X	3	−9	4	7
Y	2	5	2	2

c)



5. Use these two functions: $g(c) = 4c^2 + 7c$ $h(p) = 5p - 1$

a) Find $7g(-2) + h(-5)$ b) Find p if $h(p) = 23$

6. Write the equation of the line that passes through the points $(-6,-5)$ & $(12,-11)$
Give your answer in both Slope-Intercept and Point-Slope Forms

7. Use this line: $y = 4x - 9$

a) Write the equation of the line that passes through $(-5,3)$ and is parallel to the given line.

b) Write the equation of the line that passes through $(12,7)$ and is perpendicular to the given line.