Name: _____

Math 90
Inequality Quiz

1.   Graph the following inequalities.

a) $x \leq 5$

b) $y \geq 9$

c) $m < -3$

d) $n > -1$

(8)
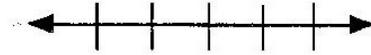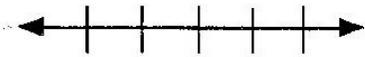
e) $x \neq 7$

f) $-2 \leq x \leq 8$

g) $y \leq -4$ or $y \geq 9$

h) $-\dfrac{7}{4} \leq g < -\dfrac{3}{4}$

2.   Solve and verify the inequalities.

a) $2x - 7 \geq 11$

b) $0.5x - 0.3 \leq 0.7x - 1.1$

(8)

3.   Solve and graph the inequalities.

a) $-3(y - 4) < -9$

b) $\dfrac{3}{4}y + \dfrac{1}{2} < \dfrac{y}{2} - 5$

(6)
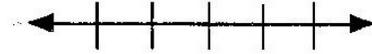
4.   The length of a rectangle is $5x + 3$ cm and the width is $3x + 2$ cm. The sides of an equilateral triangle are $4x + 7$ cm. Determine the values of x where the perimeter of the rectangle will be more than the perimeter of the triangle. Verify your answer.

(3)