

Name \_\_\_\_\_ Date \_\_\_\_\_ Hour \_\_\_\_\_

**Worksheet 5.6 - The Standard Form of a Linear Equation (textbook pages 308-314)**

**LEVEL 1**

**Write the equation in standard form with integer coefficients. Show your work.**

1)  $2x - y - 8 = 0$

2)  $y = 5 - 3x$

3)  $x - 4 = 0$

4)  $\frac{1}{4}x - 2y = -3$

5)  $0.6x = 2.1y + 1.8$

6)  $3y = 12$

**LEVEL 2**

**Write the standard form of the equation of the line that passes through the given point and has the given slope. Show your work.**

7)  $(4, 3); m = 2$

8)  $(-2, 4); m = -6$

9)  $(6, -8); m = \frac{1}{3}$

**Write the standard form of the equation of the line that passes through the given points. Show your work.**

10)  $(5, 8)$  and  $(3, 2)$

11)  $(-4, -5)$  and  $(-2, 5)$

12)  $(-2, 5)$  and  $(3, -10)$

**LEVEL 3**

Write the standard form of the equation of the horizontal and vertical lines that pass through the given point.

13) (3, -4)

14) (5, 1)

15) (0, -4)

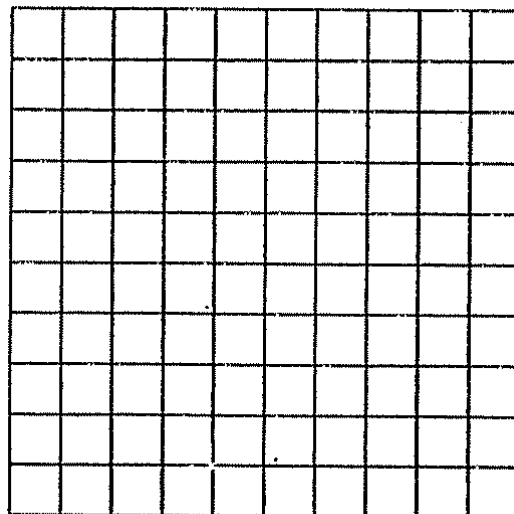
**LEVEL 4**

16) You are in charge of buying the hamburger and boned chicken for a party. You have \$60 to spend. The hamburger costs \$2 per pound and boned chicken is \$3 per pound.

a) Write an equation that represents the different amounts of hamburger,  $x$ , and chicken,  $y$ , that you can buy.

b) Rewrite your equation from part a in slope-intercept form.

c) Sketch the graph of the linear equation from b above.



d) Complete the table and label the points from the table on the graph.

<i>Hamburger (lb), x</i>	0	6	12	18	30
<i>Chicken (lb), y</i>					