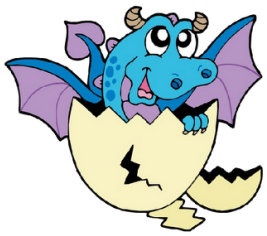
Problem Set #3.3 – Finding Equations of Lines

Name: _____ Class: _____

Find the equation of each line given the information provided. Graph each line on graph paper.

Graph #1 (Questions 1 – 9)

1.) Slope = ¾ and y-intercept = -8



_____

2.) Slope = 1 and y-intercept = 1 _____

3.) Slope = ½ and y-intercept = 0 _____

4.) Slope = -2 and containing (4,1) _____

5.) Slope = ¾ and containing (8,-3) _____

6.) Passes through (-1,13) and (2,1) _____

7.) Passes through (-5,-6) and (3,-6) _____

8.) Passes through (3,-2) and (6,0) _____

9.) Passes through (-2,1) and is parallel to $3y + 9x = 15$. _____

Graph #2 (10 – 17)

10.) Passes through (3,-4) and (3,7) _____

11.) Parallel to $4y = 3x - 8$ and has a *y*-intercept of 2. _____

12.) Parallel to $3y = 3 - 2x$ and has a *y*-intercept of 5. _____

13.) Passes through (-5,7) and is parallel to $y = 4 - 3x$. _____

14.) Passes through $(0,2)$ and is parallel to $6y = 5x - 24$. _____

15.) Passes through (-7,-1) and (-7,0) _____

16.) Parallel to the y-axis containing (4,7). _____

17.) Parallel to the x-axis containing (4,7). _____

18.) A line has a slope of -2 and contains P(3,4) and Q(-4,a). Find the value of a.