

## Chapter 4 last test practice - in class

1.) Write the equation of the line that passes through the given values:

$$f(0) = 3, \quad f(4) = -2$$

2.) Write the line that is parallel to  $y = -4x + 5$ , and passes through the point  $(7, -6)$

3.) Find linear model perpendicular to  $5x - 7y = 20$  and pass through  $(8, 10)$

4.) Write the slope intercept form of the line with slope  $(-3/2)$  and passes through  $(-10, 2)$

5.) Graph the following:  $f(x) = \begin{cases} -(1/2)x + 3, & \text{if } x > 4 \\ -x - 4, & \text{if } x \leq 4 \end{cases}$

6.) Determine if the given lines are parallel, perpendicular, or neither:

$$y + 7 = -30, \quad 4x + 6y = 24$$

7.) Determine if the sequence is arithmetic. If so, find the common difference:

$$7.5, 3.0, -1.5, -6.0, \dots$$

8.) Find the next three terms of this following sequence:  $-3, 9, 21, 33, \dots$

Write equation of line in slope intercept form:

