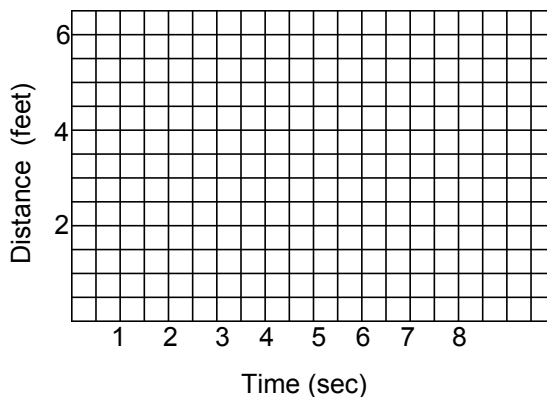
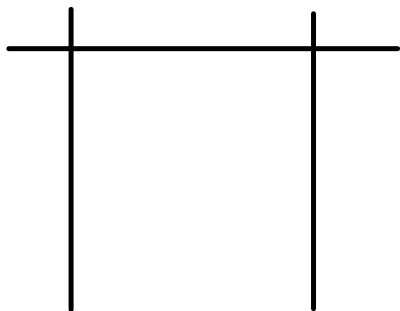


Alg 1 Week 13 Tuesday

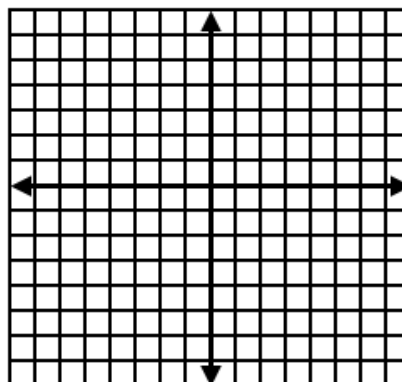
Warm Up

Skill 5: While playing Air Hockey, Alice noticed that during a bank shot, the puck moved in a path that could be modeled by  $P(t) = |3 - t|$ , where  $P(t)$  is the distance the puck is from the edge of the table (in feet) and  $t$  is the time in seconds after hitting the puck. Fill in the chart and graph the puck's motion for 8 seconds. Then USE THE GRAPH to find out how many seconds passed before the puck was 4 feet from the table's edge.



Skill 6: Write the equation in slope intercept form , then graph

$$2x + 4y = 16$$



Skill 7: Write the equation of the line in slope intercept form that goes through the points  $(-1,4)$  and  $(-4,5)$

Skill 8: Write the equation of the line perpendicular to  $y = -4x - 1$  that goes through the point  $(-4,3)$

# A1 w13d2 Chap 3 Review.notebook

Algebra 1

Chapter 5 Review ; Wk13 Tues

Name \_\_\_\_\_

## CW/HW

1. Find the **slope** of the line that passes through the pair of points.  
(3,-7) and (-2,-9)

2. Put in slope-intercept form and state the slope and y-intercept.

$$y - 8 = \frac{5}{2}(x + 7)$$

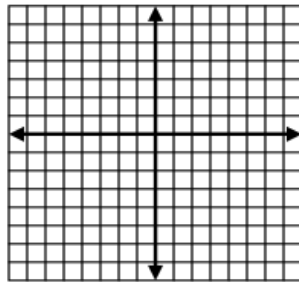
m=\_\_\_\_\_ b=\_\_\_\_\_

3. Write an equation of a line with the given slope and y-intercept.

$$m = -\frac{1}{4}, b = 3$$

4. Use the slope and y-intercept to graph the equation.

$$y = -\frac{5}{3}x + 4$$



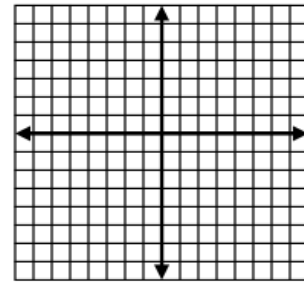
6. Write an equation for the line that is **parallel** to the given line and passes through the given point.

$$y = -3x + -2; (-5, 8)$$

7. Find the rate of change: A plant measures 4 cm on day 1 and 15 cm on day 4

8. Write the equation of the line in slope-intercept form that passes through (9,-1) and (7,5).

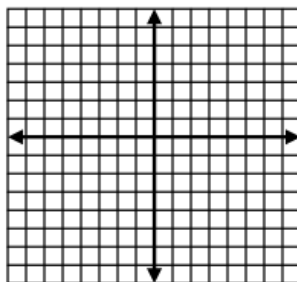
9. Graph  $4x - 2y = 6$



5. Graph the equation **using x- and y-intercepts**.

$$2x - 4y = -8$$

**Work** for x-intercept:



10. Write the equation of a line in slope-intercept form **perpendicular** to  $y = 4x - 1$  passing through (12,-2).

**Work** for y-intercept: