# Section 4.3 Exercises Part C – Exam Review

# of years	0	1	2	3	4	5	6	7	8
Amount	35	50	75	102	130	161	174	205	240

**1.** Chart the following table of growth of a savings account:

## Based on the chart:





**4.** What years did the company make over \$500?



**5.** Graph the growth of a savings account in Excel—using the savings formula—over the course of 20 years of a savings account that starts out at \$200 and adds \$50 per month and gets 7% interest.

Fill out the table for each of the following:

6. 3x + 4y = 117.  $y = \frac{7}{4}x - 2$ 



Graph the following lines, and label x and y intercepts.

8. 
$$5x - y = 10$$
  
9.  $y = -\frac{4}{3}x - 5$   
10.  $y = -2x$ 

#### Find the slope between each pair of points.

11. (4,-2) (7,3)	<b>12.</b> (3,1) (-7,6)	<b>13.</b> (5,-1) (5,-8)
<b>14.</b> (-2,9) (-2,254)	<b>15.</b> (-5,2) (5,7)	<b>16.</b> (19,1) (6,2)

17. Explain the difference (again) between a slope of zero and an undefined slope.

### Graph the following lines giving one point and the slope.

18.	-3x + 5y = 10	<b>19</b> . $y = -x - 2$	<b>20</b> .	$y = \frac{3}{5}x - 1$
21.	y = -5	<b>22</b> . $y = -\frac{6}{5}x - 2$	23.	12x - 6y = 12

#### Write the equations of the lines with the slopes and points:

**24**. Write an equation of the line that has slope m = 2, and goes through the point (-4,1). Put the answer in Standard Form.

**25.** Write an equation of the line that has slope  $m = \frac{3}{7}$ , and goes through the point (-14,6). Put the answer in Standard Form.

**26.** Write an equation of the line that has slope  $m = -\frac{2}{3}$ , and goes through the point (0,0). Put the answer in Slope-Intercept Form.

27. Write an equation of the line that has slope  $m = -\frac{5}{2}$ , and goes through the point (2,-3). Put the answer in Slope-Intercept Form.

**28.** Write an equation of the line that has slope m = 7, and goes through the point (0,5). Put the answer in Slope-Intercept Form.

**29.** Write an equation of the line that has slope  $m = -\frac{1}{4}$ , and goes through the point (-4,7). Put the answer in Standard Form.

**30.** Create a Visual Chart on one side of a piece of paper for Chapter 4 material including information and examples relating to Charts, Graphs, and Lines.



Assignment 4.3c