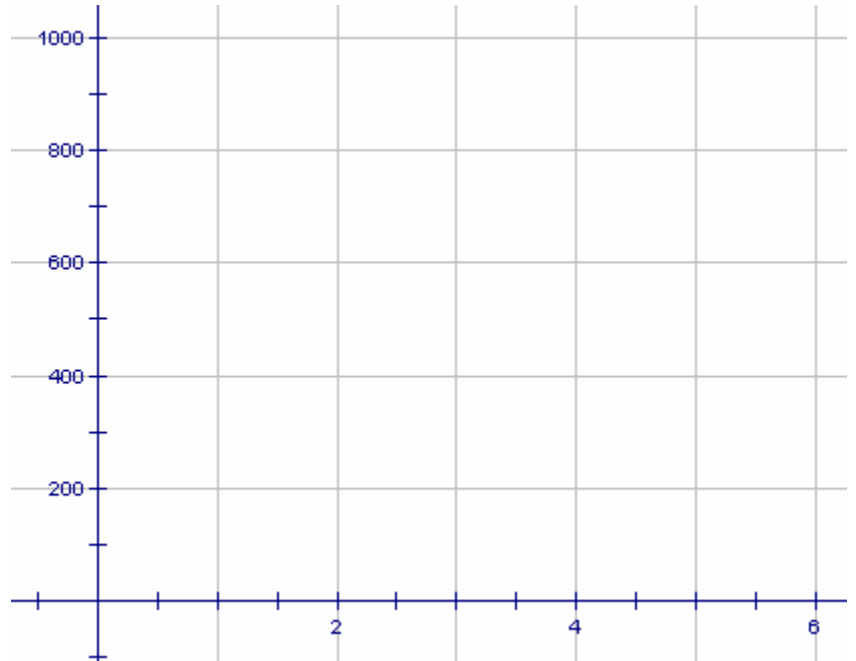


Quiz 3.4

Ms. Schoenecker, Ms. Rittler, and Ms. Hoffman are saving money for their trip to Barbados. The following rules show how much they have saved over the last few months. Graph each person's data for six months and label their names.

Ms. Schoenecker	
Month (x)	Savings (y)
0	100
1	150
2	200
3	250
Ms. Rittler	
$0; Ans + 75$	
Ms. Hoffman	
$y = 1000 - 150x$	



- 1) Change Ms. Rittler's recursive rule to an explicit (intercept form) rule.
- 2) Change Ms. Schoenecker's table to an explicit (intercept form) rule.
- 3) Change Ms. Hoffman's explicit formula to a recursive rule.
- 4) How many months go by before Mr. Rittler has saved as much money as Ms. Schoenecker?
- 5) When Ms. Hoffman has the same amount of money as Ms. Rittler, does Ms. Schoenecker have more or less money than the other two?
- 6) Mr. Towne initially has saved \$20, but would love to save a total of \$500 by the end of six months.
 - a. How much money would he have to save each month so that he'll reach his goal?
 - b. Write Mr. Towne's savings plan as a recursive rule.