SM2-A HW #7-4 (Analyze Functions)

- 1) Adam and Castel each improved their yards by planting grass sod and geraniums. They bought their supplies from the same store. Adam spent \$76 on 7 ft² of grass sod and 6 geraniums. Castel spent \$88 on 14 ft² of grass sod and 4 geraniums. What is the cost of one ft² of grass sod and the cost of one geranium?
- 2) The school that Darryl goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 3 adult tickets and 14 student tickets for a total of \$218. The school took in \$169 on the second day by selling 13 adult tickets and 1 student ticket. What is the price each of one adult ticket and one student ticket?

Solve each system by elimination.

3)
$$-6x + 7y = -30$$

 $x - 7y = 5$

4)
$$-8x - 9y = 0$$

 $-9x - 9y = 0$

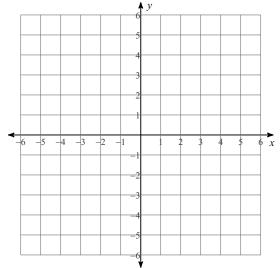
5)
$$-8x + 3y = -11$$

 $9x - 6y = -6$

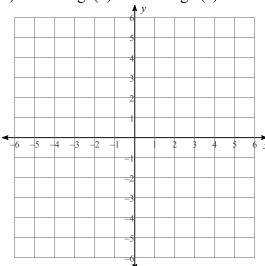
6)
$$6x + 8y = -14$$

 $12x + 16y = -24$

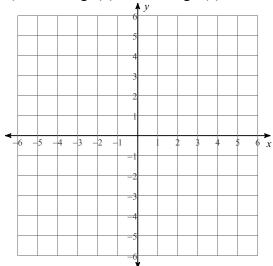
- 7) Describe the function using one (or more) of the following choices.
 - a) Increasing (b) Decreasing (c) Constant (d) Even (e) Odd (f) Positive (g) Negative



- 8) Describe the function using one (or more) of the following choices.
 - a) Increasing (b) Decreasing (c) Constant (d) Even (e) Odd (f) Positive (g) Negative



- 9) Describe the function on the interval: $-3 \le x \le 5$ using one (or more) of the following choices.
 - a) Increasing (b) Decreasing (c) Constant (d) Even (e) Odd (f) Positive (g) Negative



- 10) Describe the function using one (or more) of the following choices.
 - a) Increasing (b) Decreasing (c) Constant (d) Even (e) Odd (f) Positive (g) Negative

