SOLVING SYSTEMS OF EQUATIONS BY MATRICES – Day 2

BELL WORK			
1. What is the rate of change of the function $y = -7$?			
A. 7	С. О		
B7	D. Undefined		
2. Find the value of <i>m</i> in the following equation: $2m + 1 = 3m + 4(m - 1)$			
A. m = $-\frac{3}{5}$ C	$m = \frac{2}{9}$		
B. m = 0). m = 1		
Set up a system of equations, but do not solve. Example 1: 8 pens and 7 markers cost \$3.37, while 5 pens and 11 markers cost \$3.10. Find the cost of each pen and each marker.			
Define variables:		Equation:	
		Equation:	
Example 2: The length of a rectangular field is 12 feet longer than it is wide. The perimeter is 76 feet. Find the length of the field.			
Define variables:		Equation:	
		Equation:	

Write a system of equations, and solve using matrices in your calculator.

Example 3: A caterer's total cost for catering a party every party. In addition the caterer charges a certain 25 guests and \$420 to serve 40 guests, find the cost	includes a fixed cost, which is the same for amount for each guest. If it costs \$300 to serve per guest.		
Define variables:	Equation:		
	Equation:		
Solution:			
Example 4: Jack has \$3 in nickels and dimes. He has twice as many nickels as he does dimes. How many nickels and how many dimes does he have?			
Define variables:	Equation:		
	Equation:		
Solution:			