1. What is the rate of change of the function $y=-7$ ?
A. 7
C. 0
|B. -7
D. Undefined
2. Find the value of $m$ in the following equation: $2 m+1=3 m+4(m-1)$
A. $m=-\frac{3}{5}$
B. $m=0$
C. $m=\frac{2}{9}$
D. $m=1$

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: $\qquad$
Equation: $\qquad$

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: $\qquad$
Equation: $\qquad$

Write a system of equations, and solve using matrices in your calculator.
Example 3: A caterer's total cost for catering a party includes a fixed cost, which is the same for every party. In addition the caterer charges a certain amount for each guest. If it costs $\$ 300$ to serve 25 guests and $\$ 420$ to serve 40 guests, find the cost per guest.

Define variables:
Equation: $\qquad$
Equation: $\qquad$

Solution: $\qquad$

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: $\qquad$
Equation: $\qquad$

Solution:

