Math 131 - 03 Quiz # 2		(B)
Name	Serial #	

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) Suppose that consumers will demand 800 units of a product when the price is \$10 per unit, and 1000 units when the price is \$8 per unit. Find the demand equation for the product assuming that price *p* and quantity *q* are linearly related.

2) The demand function for a manufacturer's product is p = f(q) = 600 - 2q, where p is the price (in dollars) per unit when q units are demanded (per week). Find the level of production that maximizes the manufacturer's total revenue and determine this revenue.

3) Solve the following system algebraically: $\begin{cases} 3x - 4y = 18 \\ 2x + 5y = -11 \end{cases}$

4) Solve the system:
$$\begin{cases} x^2 + y - 3 = 0\\ 2x + y = 0 \end{cases}$$