1. . Find the value of K + J + M. (A) 2 (B) 4 (C) 6 (D) 7 (E) 8

2. Evaluate x and y if . (A) x = 0; y = 2 (B) x = 1; y = 2 (C) x = −1, 1; (D) ; (E) x = 0, ;

3. Solve for x: . (A) (B) (C) (D) (E)

1. and B = The product AB = (A) (B) [–37 21] (C) (D) (E) product is not defined

2. and B = The first row, second column of the product is (A) –5x – 3 (B) –x – 3 (C) 1 – x2 (D) 4x (E) 2x + 2

3. If , and AX = B , then the size of X is (A) 3 rows, 3 columns (B) 3 rows, 2 columns (C) 2 rows, 2 columns (D) 2 rows, 3 columns (E) cannot be determined

4. The chart below shows the number of small and large packages of a certain brand of cereal that were bought over a three-day period. The price of a small box of this brand is $2.99, and the price of a large box is $3.99. Which of the following matrix expressions represents the income, in dollars, received from the sale of cereal each of the three days?  (A) (B) (C) (D) (E)

1. The determinant of is (A) p – 6 (B) p + 6 (C) 3p – 2 (D) 3 – 2p (E) –6 – p

2. Find all values of x for which . (A) ±3.78 (B) ±4.47 (C) ±5.12 (D) ±6.19 (E) ±6.97

3. If , then (A) (B) (C) (D) (E) undefined

1. Find the matrix equation that represents the system (A) (B) (C) (D) (E) This system cannot be represented as a matrix equation.

2. Find . (A) (–2 0.5) (B) (C) (–1 3/4) (D) (E) (–5 –4/5)