Algebra 2 Bellwork

Thursday, October 22, 2015

Solve each system of equations with matrices. Write down the two matrices you used then state the answer as an ordered pair.

1.

$$5.2m - 3.5n = -1.9$$

$$6.1m + 2.3n = 29.8$$

Matrix A:

Matrix B:

2.

$$846x + 730y = 116$$

$$-122x + 17y = 198 - 139$$

Matrix A:

Matrix B:

Solution:

Solution:

3. On Monday apples cost \$0.79 each and peaches cost \$0.89 each. On Friday apples cost \$1.05 each and peaches cost \$1.11 each. I bought the same number of apples and peaches on both days. On Monday I spent \$10.97 and on Friday I spent \$14.07. Write and solve a system of equations to find the number of apples and number of peaches purchased each day.

apples purchased =

Equations:

peaches purchased =

1

Thursday, October 22, 2015 Answers Bellwork Algebra 2



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1.

$$5.2m - 3.5n = -1.9$$

$$6.1m + 2.3n = 29.8$$

Matrix A:

Solution:



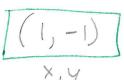
2.

$$846x + 730y = 116$$

$$-122x + 17y = 1005 - 139$$

Matrix A:

Solution:



3. On Monday apples cost \$0.79 each and peaches cost \$0.89 each. On Friday apples cost \$1.05 each and peaches cost \$1.11 each. I bought the same number of apples and peaches on both days. On Monday I spent \$10.97 and on Friday I spent \$14.07. Write and solve a system of equations to find the number of apples and number of peaches purchased each day.

peaches purchased =

 $\begin{bmatrix} .79 & .89 \end{bmatrix} \begin{bmatrix} .10.97 \end{bmatrix} .79A + .89P = 10.97 \\ 1.05 & 1.11 \end{bmatrix} \begin{bmatrix} .10.97 \\ 14.07 \end{bmatrix} 1.05A + 1.11P = 14.07$