Bellwork Hon Alg 2 Monday, October 10, 2016

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

1. $\frac{8}{9}x + \frac{5}{3}y = 244$ SOL:2. 846x + 730y = 116SOL: $\frac{7}{36}x - \frac{1}{54}y = 12$ 17y = 122x - 139Natrix A:Matrix B:Matrix A:Matrix B:Matrix A:Matrix B:

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:

1

peaches purchased =

Hon Alg 2 Monday, October 10, 2016 Answers Bellwork Solve each system of equations with matrices. Write down the two matrices you used then state the answer as an ordered pain. SOL: (72,108) 2. 846x + 730y = 116SOL : (1. $\frac{8}{9}x + \frac{5}{3}y = 244$ 17y = 122x - 139 - 7122x + 17y = -139 $\frac{7}{36}x - \frac{1}{54}y = 12$ Matrix A: Matrix A: Matrix B: Matrix B: $\begin{bmatrix} 8/q & 5/3 \\ 7/36 & -1/54 \end{bmatrix} \begin{bmatrix} 244 \\ 12 \\ 12 \end{bmatrix}$ [846 730] [116] [-122 17] [-139]

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A # apples purchased = 6ABEquations:p # peaches purchased = 7 $\begin{bmatrix} 79^{\circ} \cdot 89 \\ 1.05 & 1.11 \end{bmatrix}$ $\begin{bmatrix} 10.97 \\ 14.07 \end{bmatrix}$ 79A + .89P = 10.971.05A + 1.11P = 14.07