

## Alg 2 Bellwork Wednesday, Sept. 25, 2013

Solve each system of equations using matrices. Round to the nearest hundredth when necessary. Give answers as ordered pairs.

1.

$$\begin{aligned} 11.5f - 6g &= 104 \\ -7f + 14.5g &= -85 \end{aligned}$$

2.

$$\begin{aligned} j + \frac{9}{7}k &= -\frac{27}{7} \\ \frac{2}{3}j - k &= -10 \end{aligned}$$

3.

$$\begin{aligned} 4x + 6y &= 96 \\ 6x + 9y &= 144 \end{aligned}$$

4. On Monday the coach bought some packs of gum and bottles of Gatorade. Packs of gum were \$0.99 each and Gatorade was \$1.89 each. The coach spent a total of \$37.26.

On Friday the coach bought the same number of packs of gum and bottles of Gatorade but gum was \$1.29 a pack and Gatorade was \$1.49 a bottle. The coach spent a total of \$33.96 that day.

Write and solve a system of equations to find the number of packs of gum and bottles of Gatorade purchased each day.