PAP Algebra 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
HW: System Applications

**For #1-2, solve each system of two equations in two variables by hand using substitution.**

**1.**  **2. and**

**For #3-6, solve each system by matrices.**

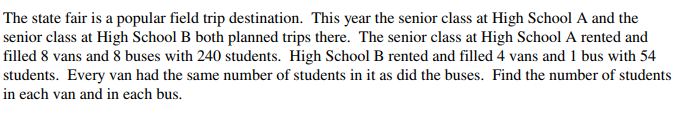
3. 4.

5. 6.

Turn over for more ☺

**For #7, formulate a system of equations for each word problem and solve using matrices.**

7. Your school’s Key Club decided to sell fruit baskets to raise money for a local charity. The club sold a total of 80 fruit baskets. There were three different types of fruit baskets. Small fruit baskets sold for $15.75 each, medium fruit baskets sold for $25 each, and large fruit baskets sold for $32.50 each. The Key Club took in a total of $2086.25, and they sold twice as many large baskets as small baskets. How many of each type of basket were sold?

**For #8, formulate a system of equations for each word problem and solve by hand.**

8.