**Day 27**

**Warm Up**

**Cramer’s Rule**

1. Find the determinant: $\left|\begin{matrix}4&-14\\-5&25\end{matrix}\right|$

2. Find the inverse of A =, if it exists. (Remember the 3 steps: Switch, Change, Divide by Determinant)

3. If matrix A is multiplied by matrix B, what is the following entry?

 $\left[\begin{matrix}-2&3\\5&6\end{matrix}\right]\left[\begin{matrix}0&-1\\7&1\end{matrix}\right]$ =$\left[\begin{matrix}21&5\\?&1\end{matrix}\right]$

4. Solve each equation for x:

 6(x + 9) + x – 11 = 44 – 9x x² - 8 = 17

 $\frac{5}{4}x-10=0$ 7x – 8y = 13