$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

- 1. Give answers rounded to the nearest hundredth.  $4x^2 + 9x - 6 = 0$
- 2. Give the exact answers.  $x^2 5x + 1 = 0$
- 3. Give the exact answers.  $x^2 4x 7 = 0$
- 4. Give the exact answers.  $3x^2 10x = 1$

## Monday, November 10, 2014 ANSWERS Algebra 2 Bellwork Solve each problem using the Quadratic Formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

1. Give answers rounded to the nearest hundredth.  $4x^2 + 9x - 6 = 0$ 

$$X = \frac{-9 \pm \sqrt{177}}{8} = \frac{-2.79}{0.54}$$

2. Give the exact answers.  $x^2 - 5x + 1 = 0$ b2-4ac = 21

$$X = \begin{bmatrix} 5 \pm \sqrt{21} \\ 2 \end{bmatrix}$$

3. Give the exact answers.  $x^2 - 4x - 7 = 0$ 

$$b^{2}-4ac=44$$
  $X=\frac{4\pm\sqrt{44}}{2}=\frac{4\pm2\pi}{2}=\frac{2\pm\sqrt{11}}{2}$ 

4. Give the exact answers.  $3x^2 - 10x = 1 \implies 3x^2 - 10x - 1 = 0$ 

$$\frac{10 \pm \sqrt{112}}{6} = \frac{10 \pm 417}{6} = \frac{5 \pm 217}{3}$$