Bellwork Alg 2A Wednesday, March 8, 2017 5th hour

Use the Quadratic Formula to solve each equation. Quadratic Formula: $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Round answers to the nearest hundredth where necessary.

1. $4x^2 - 9x - 7 = 0$
2. $8x + 3x^2 - 2 = 0$
3. $9x^2 + 42x + 49 = 0$

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Round answers to the nearest hundredth where necessary.

1. $4x^2 - 9x - 7 = 0$

$b^2 - 4ac = 193$

$X = \frac{9 \pm \sqrt{193}}{8}$

$X = 2.86, -0.61$

2. $8x + 3x^2 - 2 = 0$

$b^2 - 4ac = 88$

$X = \frac{-8 \pm \sqrt{88}}{6}$

$X = 0.23, -2.90$

3. $9x^2 + 42x + 49 = 0$

$b^2 - 4ac = 0$

$X = \frac{-42 \pm \sqrt{0}}{18}$

$= \frac{-42}{18}$

$X = -2.33$