PAP Algebra 2 **Name:_____**

Solving Quadratics & Applications

Solve by Factoring:

1. $12x^2 + 10x = 8$

2. $6x^2 + 5x = 4$

3. $x^2 + 14x + 49 = 0$

4. $12x^2 + 3x = 4x + 6$

Solve by Graphing:

5. $-10 = x^2 + 2x$

6. $23x = 5x^2 - 10$

Y1=equation
Y2=0
2^{nd}-Trace-5 (intersection)- Place cursor near the x-intercept-ENTER x3

Solve by Quadratic Formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

7. $0 = x^2 + 6x + 9$

8. $0 = 3x^2 + x - 9$

9. $0 = -3(x - 1)^2 + 5$