

Alg2 – Solving Quadratic Equations I, due Monday 10/2

Find the solutions (roots/zeros) of the following quadratic equations algebraically. Check your answers. Be sure to show *all* of your work. I suggest that you check your answer graphically using your TI-84, Desmos, GeoGebra, or some convenient graphing utility. All of your work should be on separate sheets of paper; not this one.

1. $x^2 + 8x + 12 = 0$

2. $x^2 - 4 = 0$

3. $3x^2 + 2x - 1 = 0$

4. $5x^2 - 80 = 0$

5. $2x^2 + 3x - 5 = 0$

6. $9x^2 - 25 = 0$

7. $x^2 + 6x - 5 = 0$

8. $9x^2 + 12x - 5 = 0$

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