

## MATH [0372] – [QUADRATIC EQUATIONS]

**Instructions:** Find all real solutions using either completing the square or the quadratic formula.

1.  $a^2 - 4a + 1 = 0$

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

3.  $2y^2 + 10y = 0$

4.  $\frac{x^2}{2} + \frac{2}{3} = -\frac{2x}{3}$

5.  $100x^2 - 600x + 900 = 0$

6.  $3r^2 = r - 4$

7.  $x^2 + 8x + 16 = -27$

8.  $(2y - 1)^2 = 25$

9.  $y^2 - 8y + 1 = 0$

10.  $x^2 - 5x - 2 = 0$

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1. $a = 2 \pm \sqrt{3}$	2. $x = -6, x = 1$	3. $x = 0, x = -5$
4. No real ans.	5. $x = 3$	6. No real ans.
7. No real ans.	8. $x = 3, x = -2$	9. $x = 4 \pm \sqrt{15}$
10. $x = \frac{5 \pm \sqrt{33}}{2}$	11.	12.

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