

**Math 0406-Learning Outcome: Solving Quadratic Equations by Factoring**

**Solve the following quadratic equations using factoring.**

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

2.  $x(2x + 3) = 0$

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

4.  $x^2 - 36 = 0$

5.  $x^2 - 81 = 0$

6.  $x^2 + x - 72 = 0$

7.  $3a^2 + 14a + 8 = 0$

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

9.  $a^2 + 5a = -4$

10.  $2t^2 + 7t = 4$

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**Answers:**

1.  $\{-2/5, 5\}$

2.  $\{0, -3/2\}$

3.  $\{0, -8/3\}$

4.  $\{6, -6\}$

5.  $\{9, -9\}$

6.  $\{-9, 8\}$

7.  $\{-2/3, -4\}$

8.  $\{-1/2, 5\}$

9.  $\{-4, -1\}$

10.  $\{1/2, -4\}$