**Solving Quadratic Equations – Best Method**

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| **Factorable****Ex. 6x2 – 21x = -15****Ex 4x2 + 7x – 15 = 0****Ex. 2x2 – 3x = 9**  | **Quadratic Formula (always works) or Completing the Square (only when a = 1)****Ex. x2 +6x + 3 = 0****Ex. 4x2 + 28x = -49****Ex. 2x2 + 2x + 9 = x2** |  **Take Square Roots when there is NO b-value****Ex. 3x2 – 7 = 47** **Ex. x2 + 21 = 5****Ex. x2 – 3 = 7****Ex. x2 – 2 = -5** | **Take Square Roots****Ex. (2x + 6)2 – 8 = 24****Ex. (x + 4)2 – 1 = 5****Ex. 5(x – 4)2 = 125****✪Special Case when x2 is inside✪****Ex. 2(x2 – 5) = -x2 – 1** |