



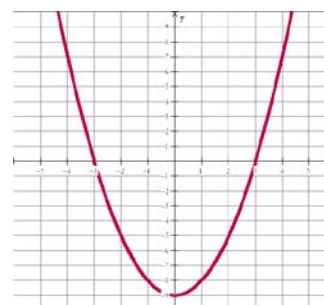
Algebra II
Solving Quadratic Equations by Graphing Notes

Today I will...	I'll know I've got it when...	Essential Question(s)
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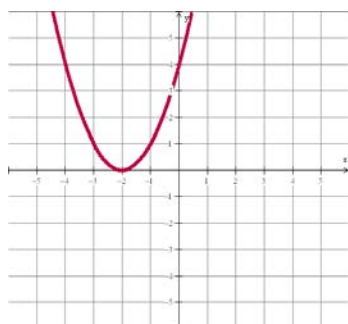
What does it mean to solve a quadratic equation?

What methods can we use to solve a quadratic equation?

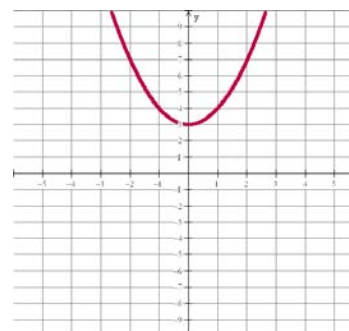
Example 1: Solve $x^2 - 9 = 0$ using the graph.



Example 2: Solve $x^2 + 4x + 4 = 0$ using the graph below.



Example 3: Solve $x^2 + 3 = 0$ using the graph below.

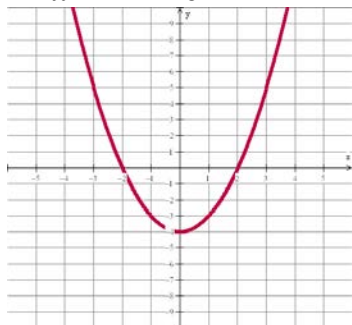


When is solving a quadratic equation by graphing appropriate?

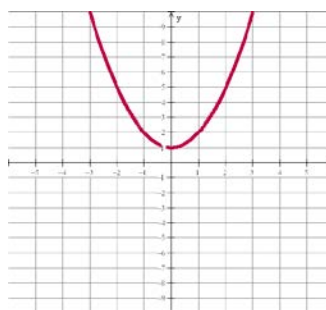
Practice Problems

Solve each quadratic equation. For Problems 1-3, graphs have been provided for you. For problems 4-6, you must graph the quadratic equation first, then use your graph to solve.

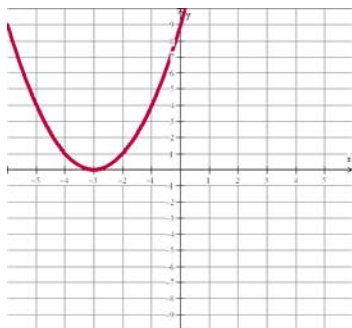
1. $x^2 - 4 = 0$



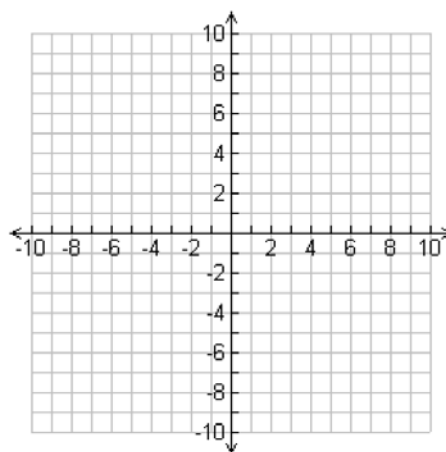
2. $x^2 - 1 = 0$



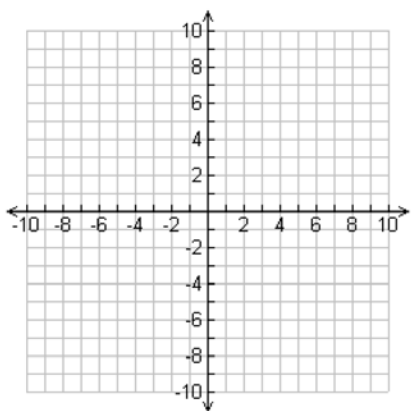
3. $x^2 + 6x + 9 = 0$



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



5. $x^2 - 10x + 24 = 0$



6. $\frac{1}{2}(x - 1)^2 - 2 = 0$

