9.3 PART 1 SOLVING QUADRATIC FUNCTIONS BY GRAPHING



What are the solutions of the graph above of $y = x^2 - 3x - 4?$ x = -1, 4

The x-intercepts (where the graph crosses the x-axis), are the <u>solutions</u> of a quadratic function that is graphed.





EXAMPLES: 1. Use a graph to estimate the solutions of $x^2 - x = 2$. Check your solutions algebraically.



EXAMPLES: 2. Use a graph to estimate the solutions of $x^2 + 1 = 2x$. Check your solutions algebraically.



EXAMPLES: 3. Use a graph to estimate the solutions of $-x^2 + 4x = 8$. Check your solutions algebraically.

