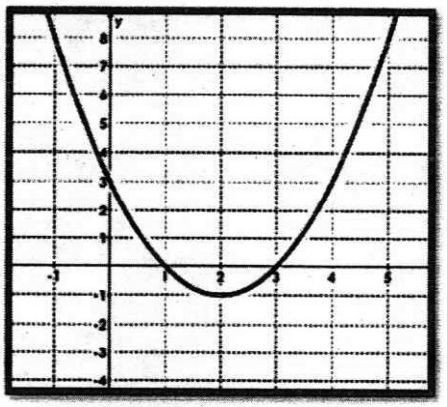
Algebra 1 Unit 9 - Quadratic Equations Notes

Day 6: Solving by Quadratic Formula

Exploring the Nature of Roots

In this task you will investigate the number of real solutions to a quadratic equation.

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

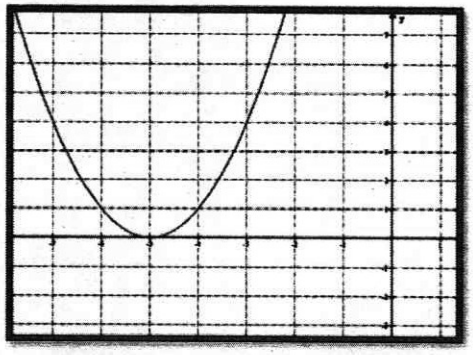


a.) How many x-intercepts does the function have?

b.) Label and state the x-intercept(s), if any.

c.) Solve the quadratic function by factoring, if possible.

2. $f(x) = x^2 + 10x + 25$

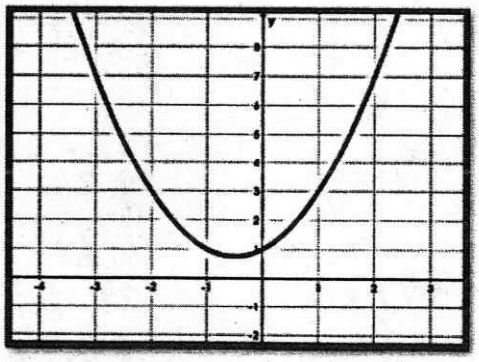


a.) How many x-intercepts does the function have?

b.) Label and state the x-intercept(s), if any.

c.) Solve the quadratic function by factoring, if possible.

3. $f(x) = x^2 + x + 1$



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