ALGEBRA 2 · CLASSWORK · SPECIAL ED

Find the Zeros of a Quadratic Function

SCORE / 25

01 Part A · Practice

To find the zeros of $f(x) = ax^2 + bx + c$, factor it and set each factor equal to 0; on a graph the zeros are the x-intercepts.

EXAMPLE

Zeros of $f(x) = 2x^2 - 2x - 24$.

1. $f(x) = 2(x^2 - x - 12) = 2(x - 4)(x + 3)$.
2. $x - 4 = 0$ or $x + 3 = 0$.
3. Zeros: -3 and 4.

WORDS TO KNOW

zero of a function	an input where the output is 0
x-intercept	a point (x, 0) on the graph
factor	a part of a product

1 ●○○

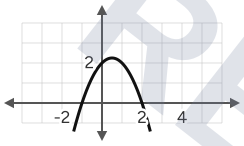
Find the zeros of $f(x) = x^2 - 9$.

HINT Factor the function. Each factor gives one zero.

2 ●○○

Find the zeros and the axis of symmetry.

HINT Find where the graph crosses the x-axis.



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Preview - the full worksheet and its answer key are at primeworksheet.com