ALGEBRA 2 · CLASSWORK · SPECIAL ED

Relate Factors to Zeros of a Function

SCORE / 25

01 Part A · Practice

If $f(x) = a(x - p)(x - q)$, the zeros are p and q: they are the x-intercepts of the graph.

EXAMPLE

Zeros of $f(x) = 2(x - 3)(x + 5)$.

1. $x - 3 = 0$ gives $x = 3$.
2. $x + 5 = 0$ gives $x = -5$.
3. The graph crosses the x-axis at $(3, 0)$ and $(-5, 0)$.

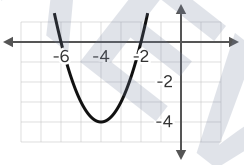
WORDS TO KNOW

zero	an x-value that makes f(x) = 0
x-intercept	where the graph crosses the x-axis
factored form	f(x) = a(x - p)(x - q)

1 ●○○

The graph of $f(x) = (x - r_1)(x - r_2)$ is shown. Find the zeros and write f in factored form.

HINT The zeros are where the graph crosses the x-axis.



2 ●○○

A quadratic function has zeros 0 and 5 and leading coefficient 1. Write it in factored form.

HINT Each zero r gives a factor (x - r).

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