ALGEBRA 2 · CLASSWORK

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.

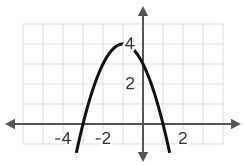
EXAMPLE

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 $(-5, 0)$.

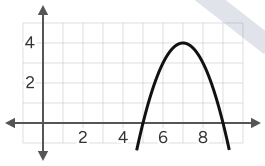
1 ●○○ A quadratic function has zeros 9 and 2 and leading coefficient $-\frac{1}{3}$. Write it in factored form.

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



3 ●○○ Find the zeros of $f(x) = 3x(x - 9)$.

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



© 2026 Math Teacher Prints · 2-3b Classwork · Regular

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