ALGEBRA 2 · HOMEWORK

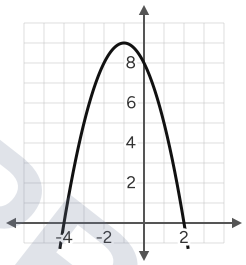
Relate Factors to Zeros of a Function

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.

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

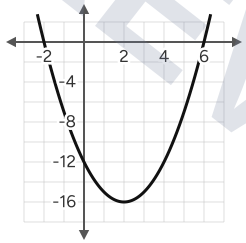


2 ●○○ Find the zeros of $f(x) = -\frac{1}{2}(x + 9)(x - 4)$.

3 ●○○ A quadratic function has zeros 9 and 8 and leading coefficient 1. Write it in factored form.

4 ●○○ Find the zeros of $f(x) = -5(x + 6)(x + 2)$.

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



6 ●○○ A quadratic function has zeros −3 and 5 and leading coefficient 1. Write it in factored form.

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