ALGEBRA 2 · CLASSWORK

Write the Equation of a Parabola in Factored Form

SCORE / 25

01 Part A · Practice

Use the zeros p and q to write $y = a(x - p)(x - q)$, then substitute one more point to find a.

EXAMPLE

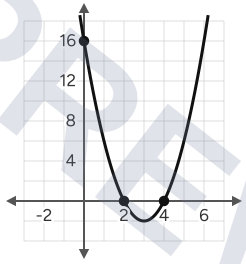
Zeros -1 **and** 5**, through** $(2, 18)$**.**

1. $y = a(x + 1)(x - 5)$.
2. $18 = a(3)(-3) = -9a$, so $a = -2$.
3. $y = -2(x + 1)(x - 5)$.

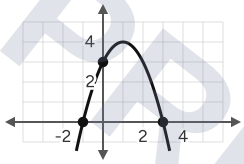
1 ●○○ Write the quadratic function with zeros -5 and -8 whose graph passes through $(7, 60)$.

2 ●○○ A parabola has zeros -4 and 4 and its vertex has y-value 32. Write its equation in factored form.

3 ●○○ Write the parabola in factored form. It passes through $(0, 16)$.



4 ●○○ Write the parabola in factored form. It passes through $(0, 3)$.



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