

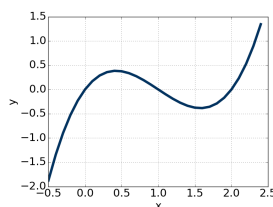
Objective 2 - Graph Polynomials

Convert between a polynomial function and its graph.

Link to section in online textbook.

First, watch [this video](#) to learn what the different forms of a polynomial can tell you about its shape. Now practice converting between the graph and the corresponding equation.

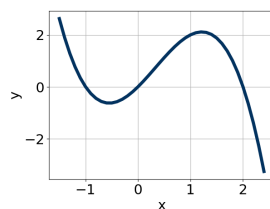
Question 1 Write an equation of the function graphed below.



List zeros from smallest to largest. Use ?? and ?? as exponents. The leading coefficient is either 1 or -1.

$$f(x) = \boxed{1}(x - \boxed{0})^{\boxed{??}}(x - \boxed{1})^{\boxed{??}}(x - \boxed{2})^{\boxed{??}}$$

Question 2 Write an equation of the function graphed below.



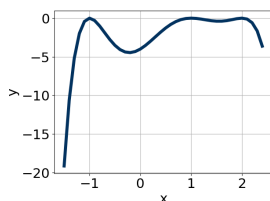
List zeros from smallest to largest. Use ?? and ?? as exponents. The leading coefficient is either 1 or -1.

$$f(x) = \boxed{-1}(x - \boxed{-1})^{\boxed{??}}(x - \boxed{0})^{\boxed{??}}(x - \boxed{2})^{\boxed{??}}$$

Learning outcomes:
Author(s): Darryl Chamberlain Jr.

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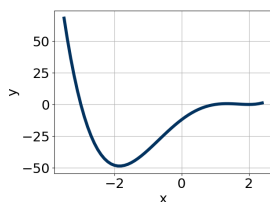
Question 3 Write an equation of the function graphed below.



List zeros from smallest to largest. Use ?? and ?? as exponents. The leading coefficient is either 1 or -1.

$$f(x) = \boxed{-1}(x - \boxed{-1})^{\boxed{??}}(x - \boxed{1})^{\boxed{??}}(x - \boxed{2})^{\boxed{??}}$$

Question 4 Write an equation of the function graphed below.



List zeros from smallest to largest. Use ?? and ?? as exponents. The leading coefficient is either 1 or -1.

$$f(x) = \boxed{1}(x - \boxed{-3})^{\boxed{??}}(x - \boxed{1})^{\boxed{??}}(x - \boxed{2})^{\boxed{??}}$$