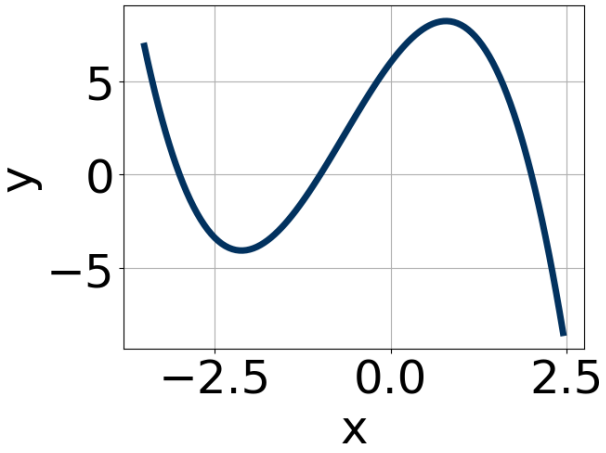
1. Describe the zero behavior of the zero $x = 7$ of the polynomial below.

$$f(x) = 7(x+2)^{12}(x-2)^{8}(x+7)^{12}(x-7)^{9}$$

2. Write an equation that *could* represent the graph below.



3. Construct the lowest-degree polynomial given the zeros below.

$$-4, \frac{-2}{5}, \text{ and } \frac{-5}{3}$$

4. Describe the zero behavior of the zero $x = -3$ of the polynomial below.

$$f(x) = -3(x-2)^7(x+2)^6(x+3)^7(x-3)^4$$

5. Construct the lowest-degree polynomial given the zeros below.

$$\frac{4}{3}, \frac{-7}{2}, \text{ and } \frac{6}{5}$$

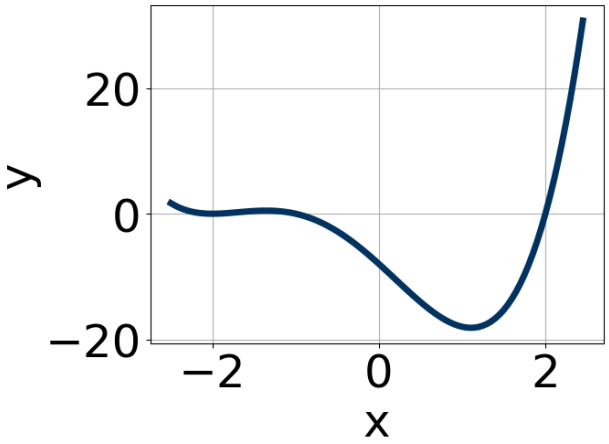
6. Describe the end behavior of the polynomial below.

$$f(x) = -3(x-2)^3(x+2)^4(x+8)^5(x-8)^5$$

7. Construct the lowest-degree polynomial given the zeros below.

$$5 - 3i \text{ and } -1$$

8. Write an equation that *could* represent the graph below.



9. Construct the lowest-degree polynomial given the zeros below.

$$-5 + 3i \text{ and } -2$$

10. Describe the end behavior of the polynomial below.

$$f(x) = 5(x+8)^5(x-8)^{10}(x+3)^5(x-3)^5$$