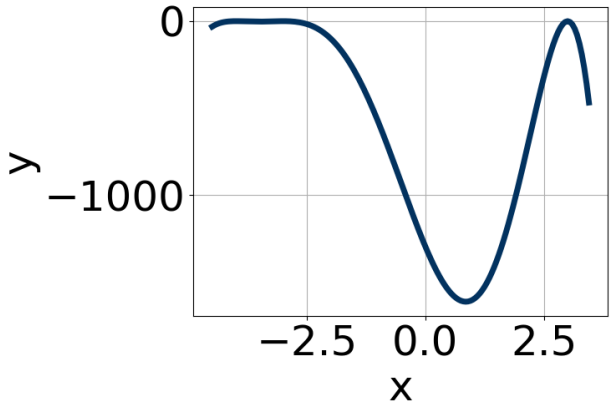
1. Describe the zero behavior of the zero $x = -2$ of the polynomial below.

$$f(x) = 6(x-5)^7(x+5)^4(x+2)^9(x-2)^6$$

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



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

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

4. Describe the zero behavior of the zero $x = -8$ of the polynomial below.

$$f(x) = -6(x+2)^{11}(x-2)^{7}(x+8)^{3}(x-8)^{2}$$

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

$$\frac{1}{2}, \frac{3}{4}, \text{ and } 4$$

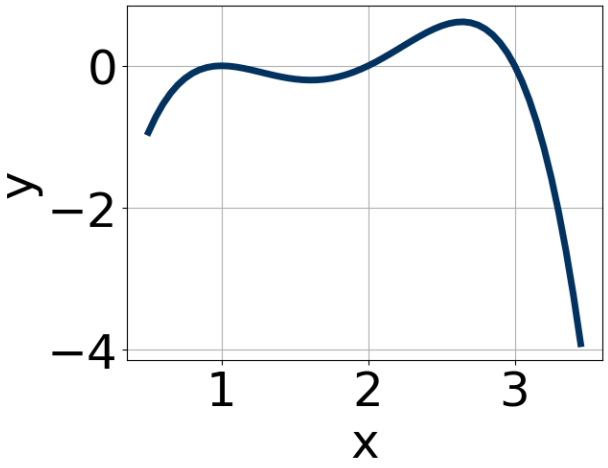
6. Describe the end behavior of the polynomial below.

$$f(x) = 2(x+7)^4(x-7)^9(x-4)^2(x+4)^2$$

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

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

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



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

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

10. Describe the end behavior of the polynomial below.

$$f(x) = 5(x+9)^4(x-9)^7(x-7)^4(x+7)^4$$