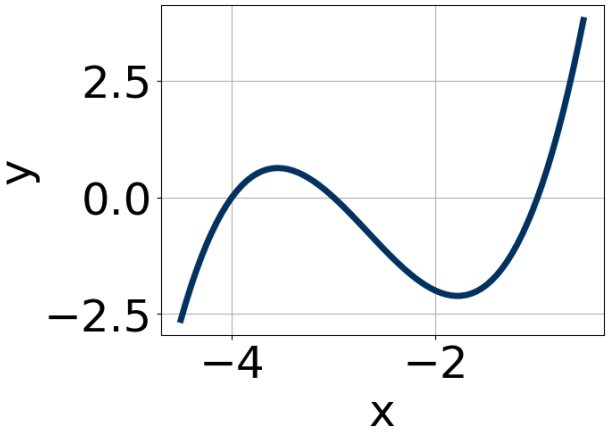
1. Describe the zero behavior of the zero $x = -9$ of the polynomial below.

$$f(x) = -2(x-4)^9(x+4)^7(x+9)^3(x-9)^2$$

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



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

$$1, \frac{7}{4}, \text{ and } \frac{5}{3}$$

4. Describe the zero behavior of the zero $x = 9$ of the polynomial below.

$$f(x) = 2(x-7)^6(x+7)^4(x+9)^8(x-9)^7$$

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

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

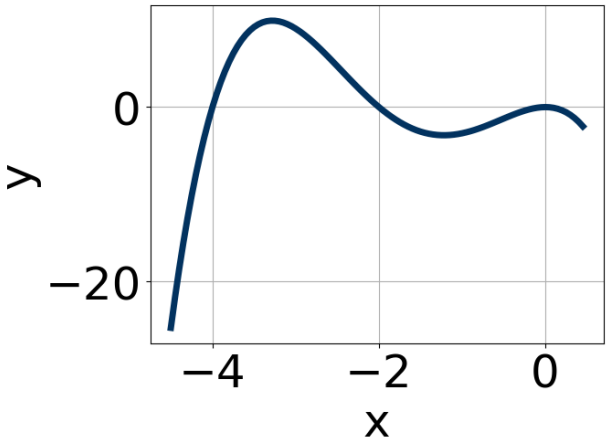
6. Describe the end behavior of the polynomial below.

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

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.

$$-2 - 4i \text{ and } 3$$

10. Describe the end behavior of the polynomial below.

$$f(x) = 7(x+5)^4(x-5)^5(x+9)^2(x-9)^3$$