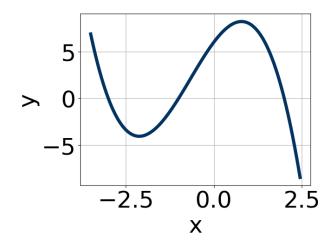
1. Describe the zero behavior of the zero x=7 of the polynomial below.

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

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.

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

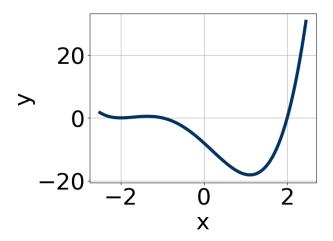
6. Describe the end behavior of the polynomial below.

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

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

$$5 - 3i$$
 and -1

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



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

$$-5 + 3i$$
 and -2

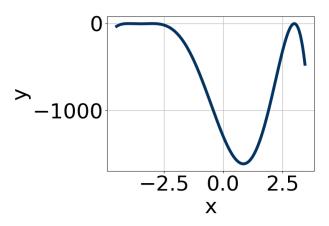
10. Describe the end behavior of the polynomial below.

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

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

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

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



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

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

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

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

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

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

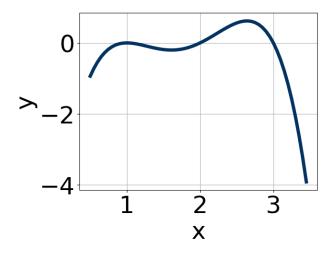
16. Describe the end behavior of the polynomial below.

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

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

$$-2 + 2i$$
 and -2

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



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

$$-2 + 2i$$
 and 3

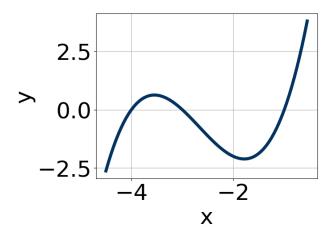
20. Describe the end behavior of the polynomial below.

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

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

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

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



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

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

24. Describe the zero behavior of the zero x=9 of the polynomial below.

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

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

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

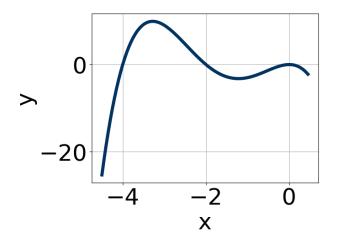
26. Describe the end behavior of the polynomial below.

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

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

$$2-2i$$
 and 2

28. Write an equation that could represent the graph below.



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

$$-2-4i$$
 and 3

30. Describe the end behavior of the polynomial below.

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