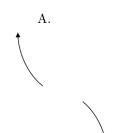
26. Describe the end behavior of the polynomial below.

$$f(x) = 6(x-8)^5(x-3)^7(x+3)^2(x+8)^4$$



В.



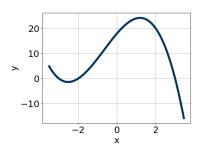
C.



D.



27. Which of the following equations *could* be of the graph presented below?



A. 
$$13(x+2)^{11}(x-3)^5(x+3)^7$$

B. 
$$-14(x+2)^7(x-3)^{11}(x+3)^9$$

C. 
$$-8(x+2)^{10}(x-3)^9(x+3)^{11}$$

D. 
$$-12(x+2)^8(x-3)^{10}(x+3)^9$$

E. 
$$5(x+2)^{10}(x-3)^7(x+3)^7$$

28. Construct the lowest-degree polynomial given the zeros below. Then, choose the intervals that contain the coefficients of the polynomial in the form  $ax^3 + bx^2 + cx + d$ .

$$\frac{4}{3}$$
,  $-2$ ,  $\frac{-2}{3}$ 

A. 
$$a \in [4, 13], b \in [35, 39], c \in [43, 46], \text{ and } d \in [13, 26]$$

B. 
$$a \in [4, 13], b \in [-7, 6], c \in [-32, -23], \text{ and } d \in [-17, -5]$$

C. 
$$a \in [4, 13], b \in [4, 14], c \in [-26, -18], \text{ and } d \in [13, 26]$$

D. 
$$a \in [4, 13], b \in [-13, -7], c \in [-26, -18], \text{ and } d \in [13, 26]$$

E. 
$$a \in [4, 13], b \in [4, 14], c \in [-26, -18], \text{ and } d \in [-17, -5]$$

29. Construct the lowest-degree polynomial given the zeros below. Then, choose the intervals that contain the coefficients of the polynomial in the form  $x^3 + bx^2 + cx + d$ .

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

- A.  $b \in [0.76, 3.05], c \in [7.39, 9.98], \text{ and } d \in [-63, -57]$
- B.  $b \in [0.76, 3.05], c \in [0.43, 1.11], \text{ and } d \in [-7, -1]$
- C.  $b \in [-2.67, 0.41], c \in [7.39, 9.98], \text{ and } d \in [59, 65]$
- D.  $b \in [0.76, 3.05], c \in [-2.3, -0.94], \text{ and } d \in [-15, -9]$
- E. None of the above.
- 30. Describe the zero behavior of the zero x = -6 of the polynomial below.

$$f(x) = -2(x-9)^3(x-6)^4(x+6)^7(x+9)^5$$

