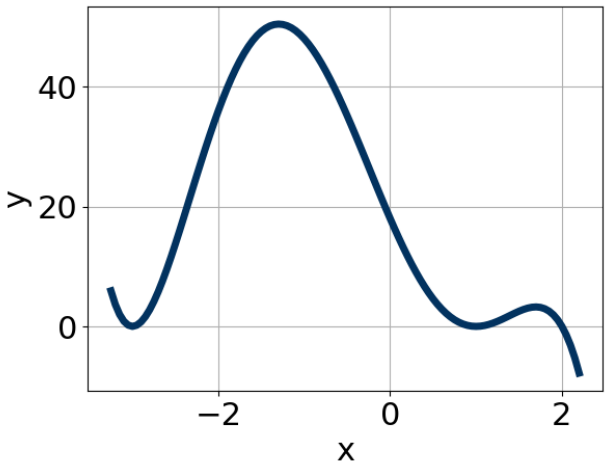
26. Which of the following equations *could* be of the graph presented below?



A. $-(x-2)(x-1)^2(x+3)^2$

B. $(x-2)^2(x-1)^2(x+3)^2$

C. $-(x-2)(x-1)^2(x+3)$

D. $(x-2)(x-1)^2(x+3)^2$

E. $-(x-2)^2(x-1)^2(x+3)$

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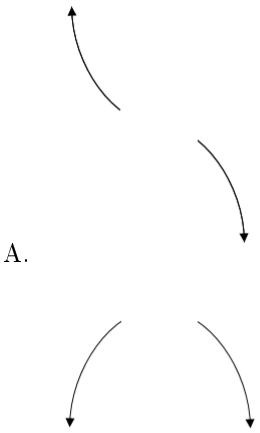
27. Choose the end behavior of the polynomial below.

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

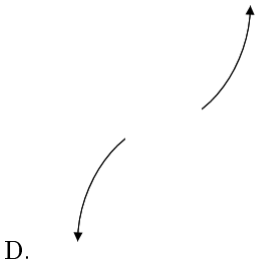
A.



B.

C.

D.



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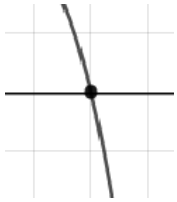
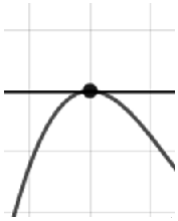
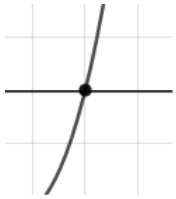
28. Describe the zero behavior of the zero -8 of the polynomial below.

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

A. 

C. 

B. 

D. 

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

$$4, \frac{-3}{5}, \frac{1}{3}$$

A. $a \in [12, 17], b \in [44, 47], c \in [-54, -51],$ and $d \in [10, 15]$

B. $a \in [12, 17], b \in [-59, -55], c \in [-22, -14],$ and $d \in [-16, -7]$

C. $a \in [12, 17], b \in [52, 59], c \in [-22, -14],$ and $d \in [-16, -7]$

D. $a \in [12, 17], b \in [-59, -55], c \in [-22, -14],$ and $d \in [10, 15]$

E. $a \in [12, 17], b \in [57, 68], c \in [9, 14],$ and $d \in [-16, -7]$

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

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

A. $b \in [1.7, 5.9], c \in [9, 21],$ and $d \in [63, 66]$

B. $b \in [-4.8, -2], c \in [-19, -10],$ and $d \in [-66, -62]$

C. $b \in [-1.5, 1.1], c \in [3, 9],$ and $d \in [-2, 2]$

D. $b \in [-4.8, -2], c \in [9, 21],$ and $d \in [-66, -62]$

E. $b \in [-1.5, 1.1], c \in [-4, 2],$ and $d \in [-24, -11]$