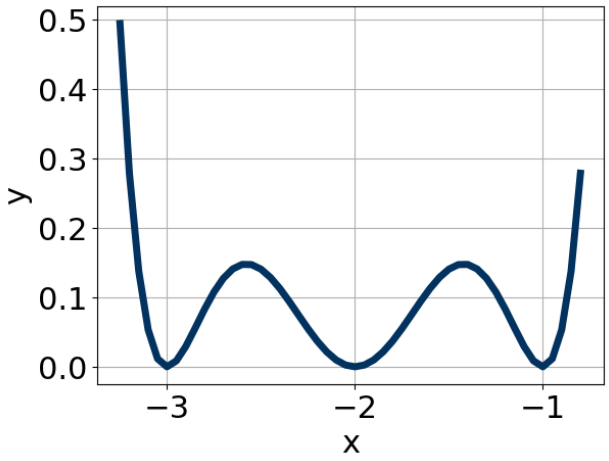
26. Which of the following equations *could* be of the graph presented below?



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

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

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

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

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

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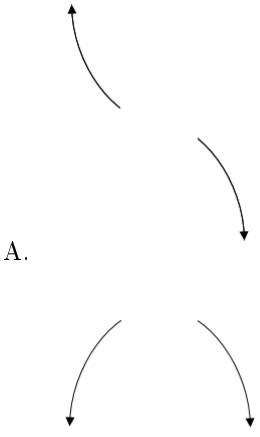
27. Choose the end behavior of the polynomial below.

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

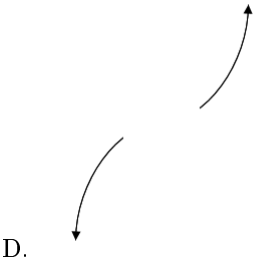
A.



B.

C.

D.



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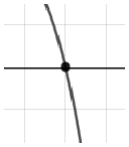
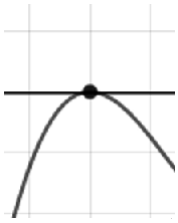
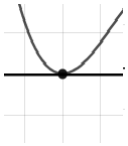
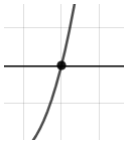
28. Describe the zero behavior of the zero $x = -3$ of the polynomial below.

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

A. 

B. 

C. 

D. 

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

$$4, \frac{-2}{5}, \frac{3}{5}$$

A. $a \in [21, 28], b \in [-107, -101], c \in [11, 15],$ and $d \in [17, 28]$

B. $a \in [21, 28], b \in [-107, -101], c \in [11, 15],$ and $d \in [-30, -21]$

C. $a \in [21, 28], b \in [92, 97], c \in [-32, -20],$ and $d \in [-30, -21]$

D. $a \in [21, 28], b \in [103, 107], c \in [11, 15],$ and $d \in [-30, -21]$

E. $a \in [21, 28], b \in [68, 77], c \in [-101, -91],$ and $d \in [17, 28]$

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

$$-2i \text{ and } -1$$

A. $b \in [-3, 0.1], c \in [3.29, 4.02],$ and $d \in [-5.7, -1.9]$

B. $b \in [-3, 0.1], c \in [-4.15, -3.73],$ and $d \in [-5.7, -1.9]$

C. $b \in [0.6, 1.5], c \in [3.29, 4.02],$ and $d \in [3.4, 5.1]$

D. $b \in [0.6, 1.5], c \in [2.96, 3.43],$ and $d \in [0.4, 3.2]$

E. $b \in [0.6, 1.5], c \in [0.47, 1.77],$ and $d \in [-1.7, 1.9]$
