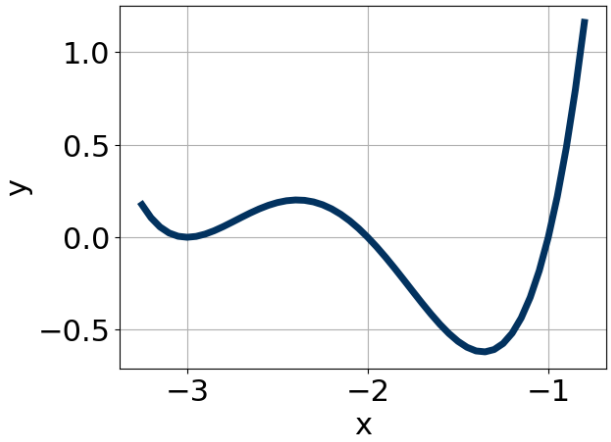
26. Which of the following equations *could* be of the graph presented below?



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

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

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

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

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

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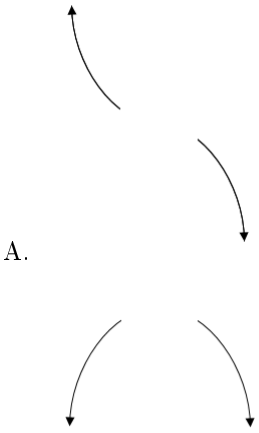
27. Choose the end behavior of the polynomial below.

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

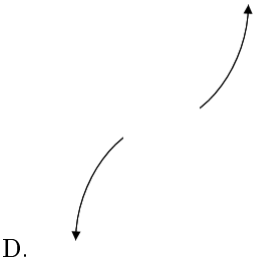
A.



B.

C.

D.



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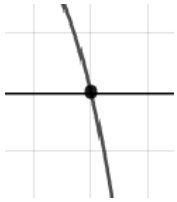
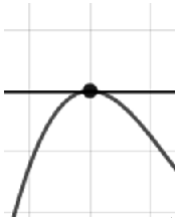
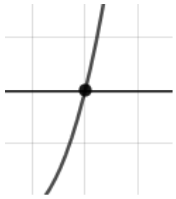
28. Describe the zero behavior of the zero -2 of the polynomial below.

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

A. 

C. 

B. 

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 $ax^3 + bx^2 + cx + d$.

$$\frac{7}{3}, -5, -2$$

A. $a \in [0,4], b \in [25,30], c \in [77,87],$ and $d \in [68,71]$

B. $a \in [0,4], b \in [-6,2], c \in [-52,-45],$ and $d \in [-71,-67]$

C. $a \in [0,4], b \in [8,20], c \in [-22,-16],$ and $d \in [-71,-67]$

D. $a \in [0,4], b \in [8,20], c \in [-22,-16],$ and $d \in [68,71]$

E. $a \in [0,4], b \in [-17,-13], c \in [-22,-16],$ and $d \in [68,71]$

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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 $x^3 + bx^2 + cx + d$.

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

A. $b \in [-3.9,-2.2], c \in [-19,-12],$ and $d \in [-49,-41]$

B. $b \in [0.5,2.2], c \in [1,7],$ and $d \in [-3,1]$

C. $b \in [2.6,5.2], c \in [11,18],$ and $d \in [44,53]$

D. $b \in [0.5,2.2], c \in [-2,0],$ and $d \in [-13,-8]$

E. $b \in [-3.9,-2.2], c \in [11,18],$ and $d \in [-49,-41]$
