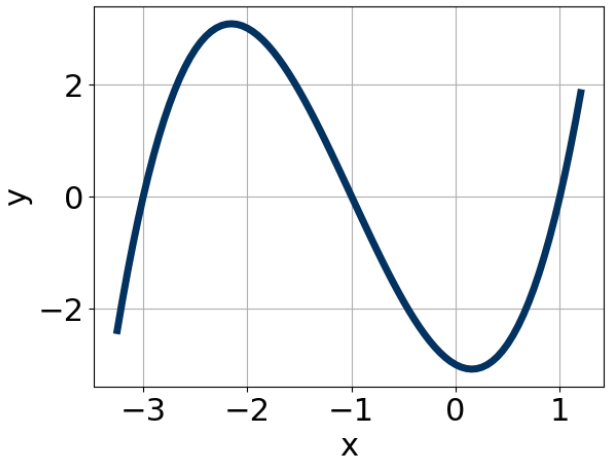
26. Which of the following equations *could* be of the graph presented below?




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

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

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

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

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

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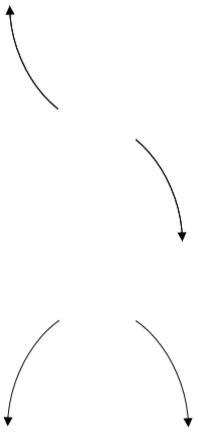
27. Choose the end behavior of the polynomial below.

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

A.

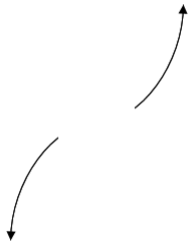


B.



C.

D.



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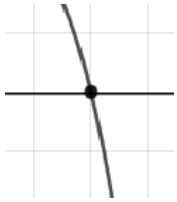
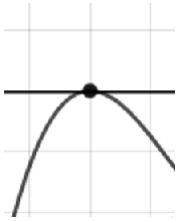
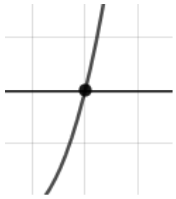
28. Describe the zero behavior of the zero $-7$ of the polynomial below.

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

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

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

A. $a \in [-2, 5], b \in [-24, -19], c \in [38, 40]$, and $d \in [-21, -10]$

B. $a \in [-2, 5], b \in [-22, -14], c \in [8, 12]$, and $d \in [14, 20]$

C. $a \in [-2, 5], b \in [-10, -2], c \in [-22, -20]$, and $d \in [14, 20]$

D. $a \in [-2, 5], b \in [12, 23], c \in [8, 12]$, and $d \in [-21, -10]$

E. $a \in [-2, 5], b \in [12, 23], c \in [8, 12]$, and $d \in [14, 20]$

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

$$-4i \text{ and } 1$$

A. $b \in [-3.1, -0.9], c \in [15.5, 18]$, and $d \in [-17, -13]$

B. $b \in [0, 4.8], c \in [-1.2, -0.9]$, and $d \in [-3, 4]$

C. $b \in [0, 4.8], c \in [-20.1, -15.9]$, and $d \in [11, 17]$

D. $b \in [0, 4.8], c \in [15.5, 18]$, and $d \in [11, 17]$

E. $b \in [0, 4.8], c \in [2.1, 5.9]$, and $d \in [-10, -3]$

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