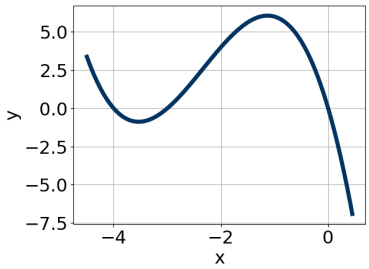
26. Which of the following equations *could* be of the graph presented below?



A. $3x^{11}(x+4)^9(x+3)^7$

B. $-16x^5(x+4)^6(x+3)^9$

C. $13x^7(x+4)^8(x+3)^{11}$

D. $-12x^7(x+4)^{11}(x+3)^5$

E. $-8x^7(x+4)^4(x+3)^{10}$

---

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

$$2 + 5i \text{ and } -1$$

A. $b \in [0.34, 1.62], c \in [-2.4, 2],$ and $d \in [-2.7, -1.7]$

B. $b \in [0.34, 1.62], c \in [-4.5, -2.8],$ and $d \in [-6.2, -2.6]$

C. $b \in [2.13, 4.2], c \in [22.8, 25.3],$ and $d \in [-31.7, -26.8]$

D. $b \in [-4, -2.79], c \in [22.8, 25.3],$ and $d \in [25.8, 29.8]$

E. None of the above.

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

$$\frac{-1}{3}, \frac{6}{5}, \frac{-4}{5}$$

A. $a \in [73, 89], b \in [-9, -3], c \in [-92, -72],$ and $d \in [-25, -23]$

B. $a \in [73, 89], b \in [-1, 6], c \in [-92, -72],$ and $d \in [23, 30]$

C. $a \in [73, 89], b \in [-9, -3], c \in [-92, -72],$ and $d \in [23, 30]$

D. $a \in [73, 89], b \in [-58, -52], c \in [-64, -57],$ and $d \in [23, 30]$

E. $a \in [73, 89], b \in [124, 136], c \in [16, 26],$ and $d \in [-25, -23]$

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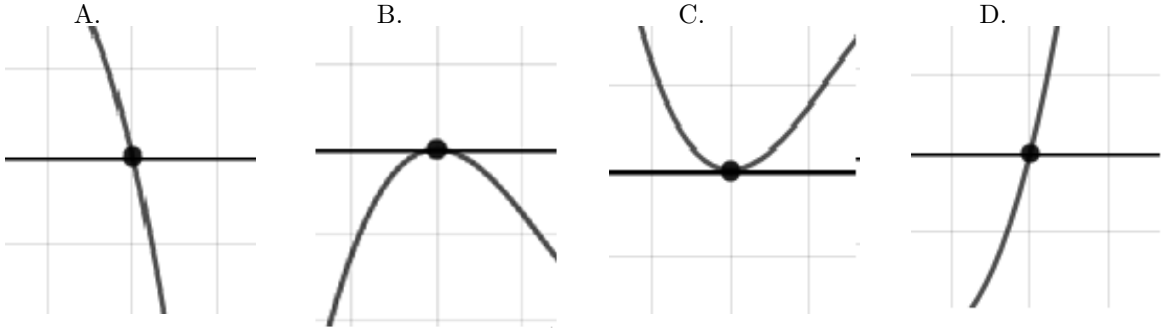
29. Describe the zero behavior of the zero $x = -5$ of the polynomial below.

$$f(x) = 4\,(x-8)^2\,(x-5)^4\,(x+5)^7\,(x+8)^4$$

A. B. C. D.



30. Describe the end behavior of the polynomial below.

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

A. B. C. D.