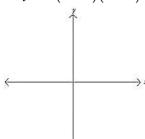
Write a polynomial function with the given zeros.

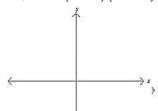
- **1.** 5, -1, 3
- **2.** 2, 3, -1, -3
- **3.** 0, -8, 2

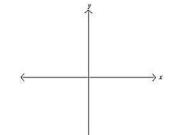
4. -10, 0, 2, 3, -6

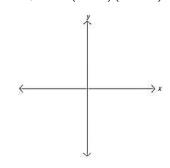
For each polynomial function, find the end behavior, leading coefficient, roots, and sketch the graph.

- **5.** y = x(x+6)(x-2) **6.** y = 2x(x+2)(x-10) **7.** y = -2(x-1)(x+1)(x-4)(x+4) **8.** y = 3x(x+4)(2x-3)



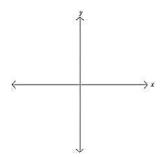


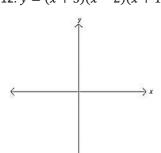


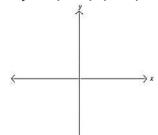


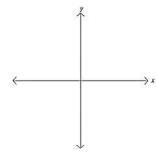
For each polynomial function, find the end behavior, leading coefficient, roots (with multiplicity), and sketch the graph.

- **9.** $y = (x+6)^2(x+7)$
- 12. $y = (x+5)(x-2)(x+1)^2$ 11. $y = x(x-2)^2(x+3)^2$
- **12.** $y = (x-1)(x+4)^3$

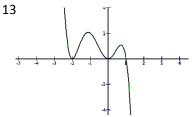




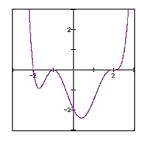




Write a possible equation to represent the given graph.



14.



15.

