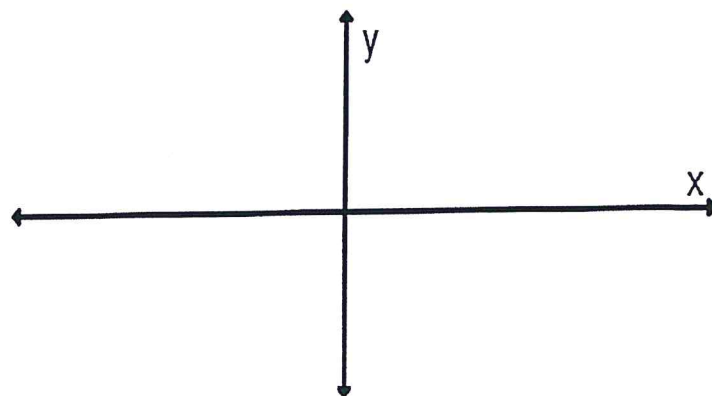
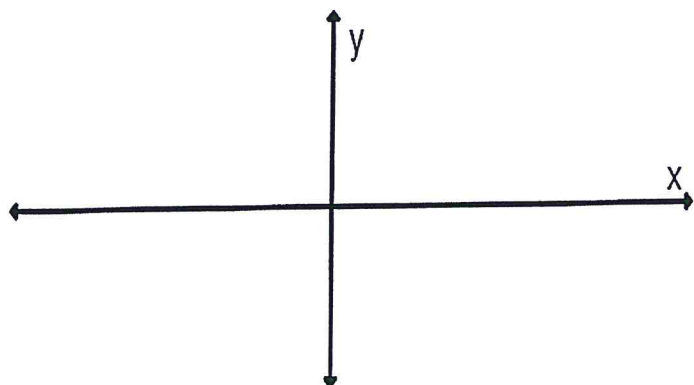


Sketch the graph of each polynomial showing the end behavior, the zeros, and the behavior around each zero.

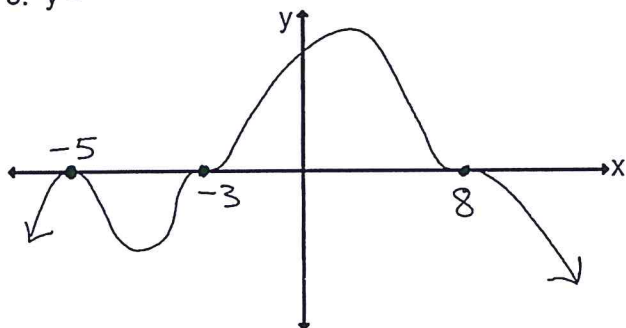
1. $y = -x(x+6)^2(x-4)^2$

2. $f(x) = (x-5)^2(x+2)^3(x+8)$

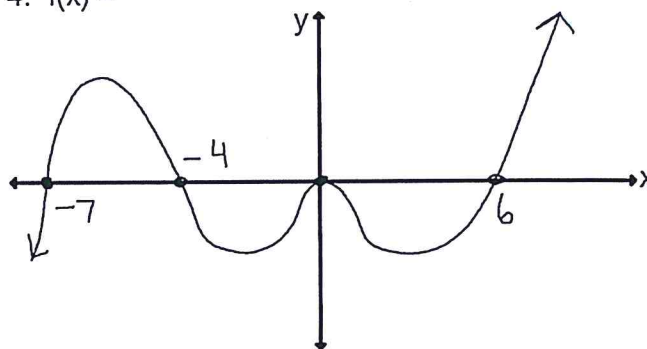


Use the graph of each polynomial to write its equation.

3. $y =$



4. $f(x) =$



5. Write an equation of a polynomial that has the following zeros: $-2, -1, 5$ (all single zeros). Give your answer in Standard Form.

$y =$

6. Write the exact equation of a polynomial that goes through the point $(-1, 112)$ and has the following zeros: 6 (single zero) and -3 (double zero). Give your answer in Factored Form with the correct value of a .

$y =$