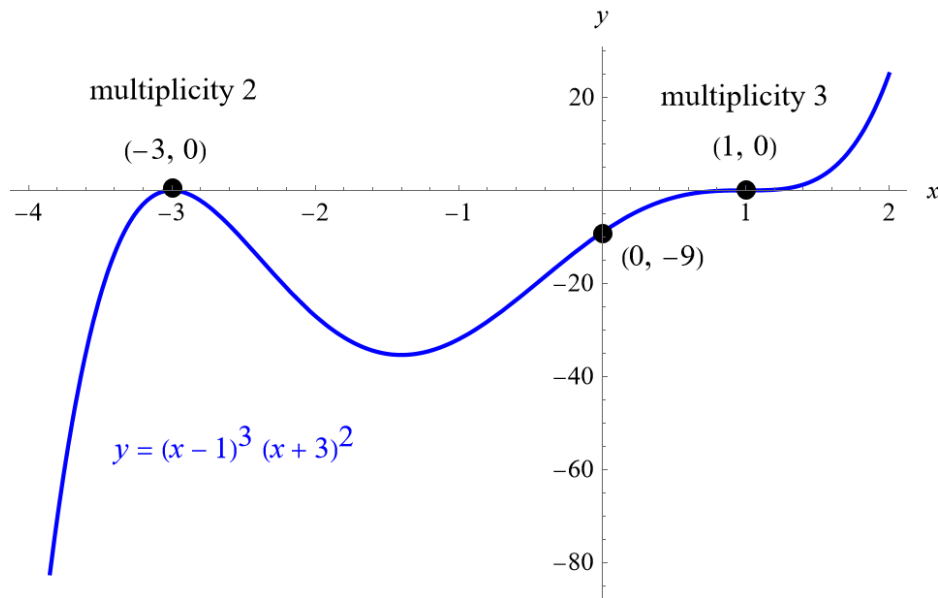## Exercise 44

For the following exercises, graph the polynomial functions. Note x- and y- intercepts, multiplicity, and end behavior.

$$h(x) = (x-1)^3(x+3)^2$$

Solution

Below is a graph of the function.

The end behavior is $h(x) \to -\infty$ as $x \to -\infty$ and $h(x) \to \infty$ as $x \to \infty$.