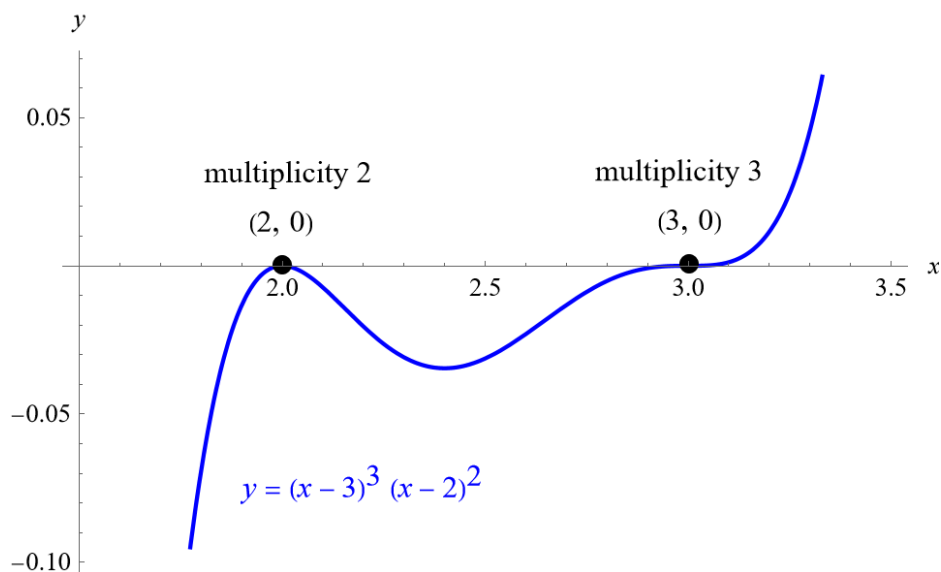## Exercise 45

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

$$k(x) = (x-3)^3(x-2)^2$$

Solution

Below is a graph of the function.

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