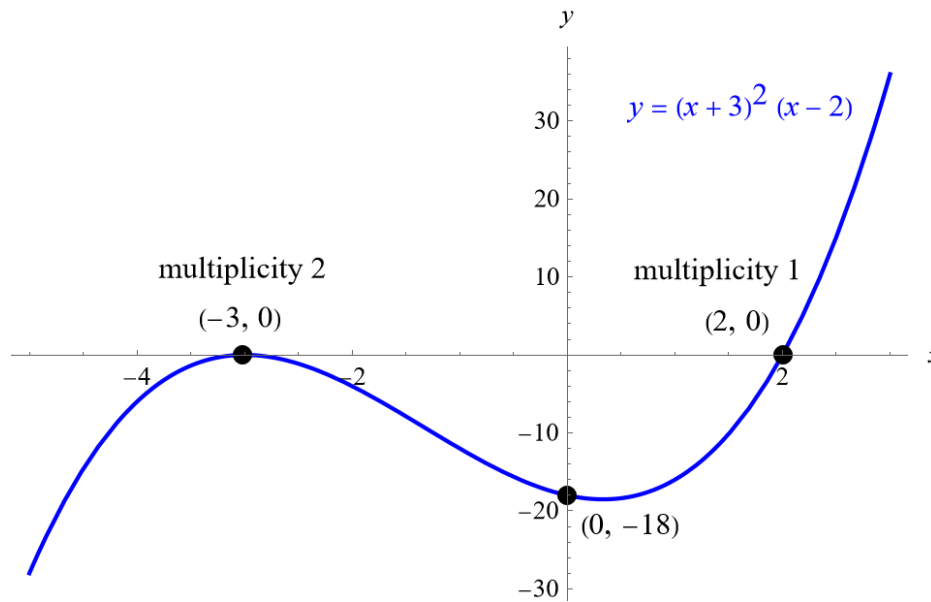## Exercise 42

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

$$f(x) = (x + 3)^2(x - 2)$$

Solution

Below is a graph of the function.

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