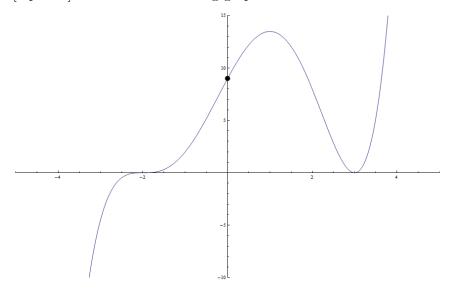
Read each problem **very carefully** before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

- 1. [4 points] Consider f(x) = 5(x+3)(2x+1)(3x-2). Find the following:
 - (a) f(x) in general form.
 - (b) The degree, leading term and leading coefficient of f.
 - (c) The y- and x-intercepts.

- 2. [4 points] Consider $f(x) = x(x+1)^2(x-2)$.
 - (a) Identify the end behavior.
 - (b) Find the roots and their multiplicities.
 - (c) Sketch the graph of y = f(x) (use the space on the right and label all important points).

3. [4 points] Consider the following graph.



- (a) Find the roots and their multiplicities.
- (b) Identify the end behavior.
- (c) Find a possible equation for the function whose graph is shown.