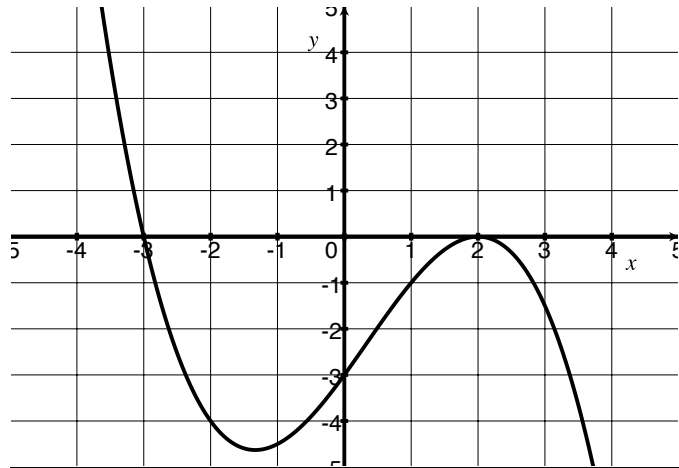


# Quiz 3

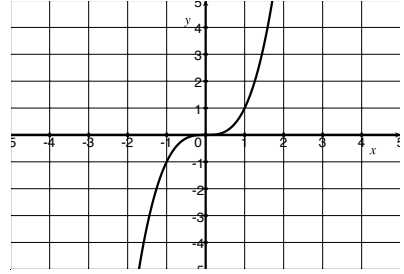
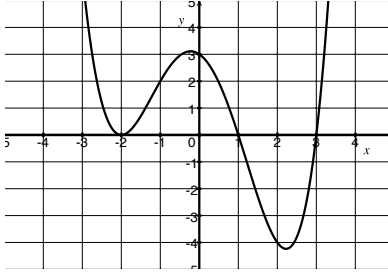
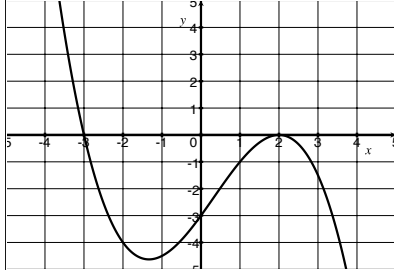
Show *all* your work. No credit is given without reasonable supporting work. There are *two* sides to this quiz.

1. [1] Write down a function that is *not* a polynomial.

2. [3] (§2.3 #38) The graph of a cubic polynomial  $f$  is given. Find the equation for  $f$ .



3. [2] (Polynomial Wks #7) Identify which (if any) of the following could be the graph of a degree 3 polynomial.



4. [4] (§1.2 #85) The area of a rectangle is  $4x^4 - 4x^3 + 9x^2 - x + 2$  cm<sup>2</sup> and the width is known to be  $x^2 - x + 2$  cm. Find the length.