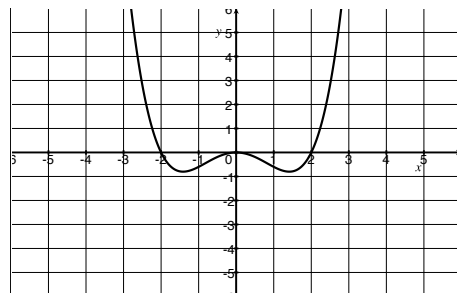
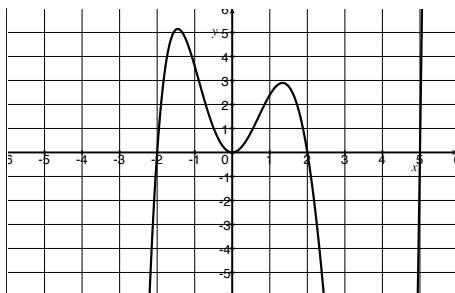
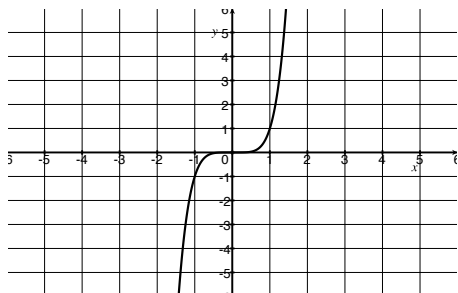


# Quiz 2

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

1. [2] (polynomial wks #9) Which of the following could be the graph of a fifth degree polynomial. Circle all that could work and cross out those that could not.

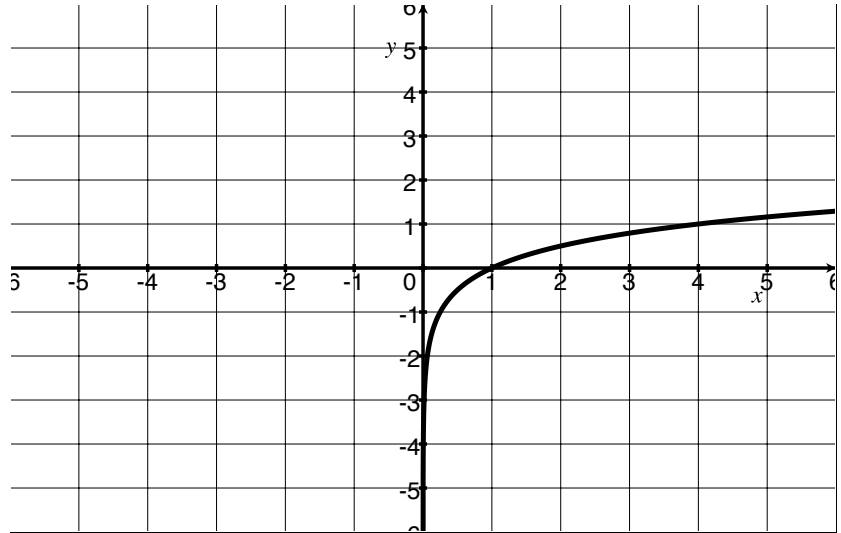


2. [3] (A.2 #74) *Completely* factor  $2x^3 + 3x^2 - 11x - 6$  given that 2 is a root.

3. Let  $g$  be the function whose graph is shown to the right.

(a) [1] What is the domain of  $g$ ?

(b) [2] (§3.2 #62) Find the function of the form  $g(x) = \log_b(x)$ .



(c) [2] (WebHW7 #14) Sketch the graph of  $3g(x) - 1$