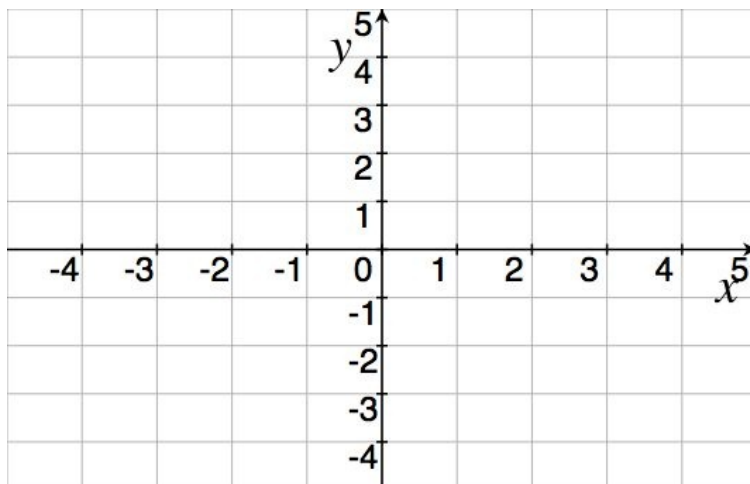


Quiz 3

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

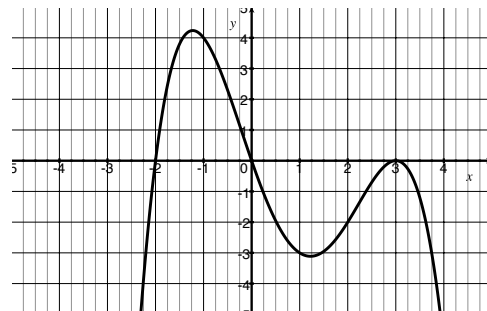
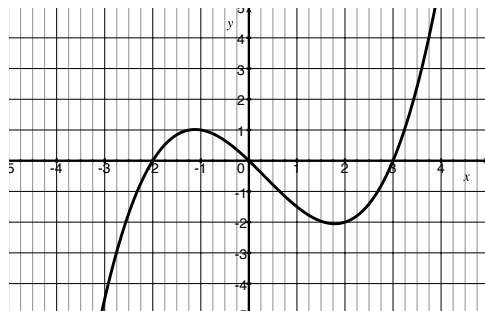
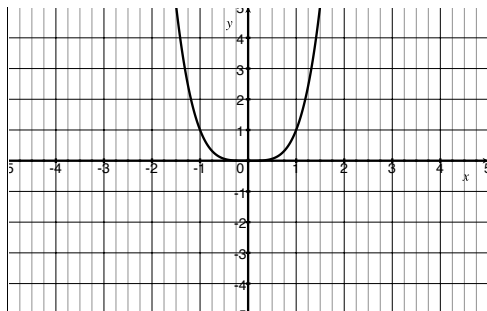
1. (WebHW8 #4) Let $p(x) = 2x^2 - 8x - 1$

(a) [1] Find the vertex of p



(b) [2] Graph p on the axes provided.

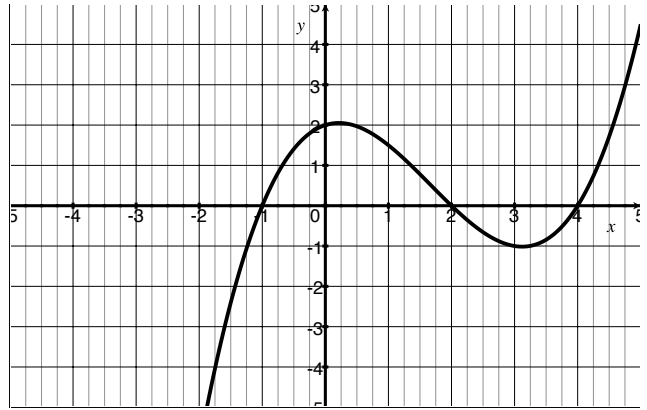
2. [2] (PolynomialWks#6) Identify which of the graphs below could be the graphs of a 4th degree polynomial.



3. [1] Provide an example of a fifth degree polynomial.

4. Consider the function f graphed to the right.

- (a) [1] (WebHW9 #9) True or False:
The leading coefficient
of f is negative.



- (b) [3] (§2.3 #28) Assume when f
is completely factored, each real
zero corresponds to a factor of
the form $(x - c)^m$.
Find the equation of least degree for f .