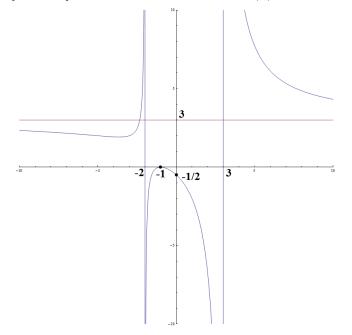
## QUIZ 8 - MATH 111 YOUR NAME:

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. [5 points] Consider  $f(x) = \frac{6(x+1)}{(x+3)(x-2)}$ .
  - (a) Find the domain.
  - (b) Find the vertical asymptotes.
  - (c) Find the horizontal asymptote.
  - (d) Find the *y*-intercept.
  - (e) Find the x-intercept(s).
  - (f) Sketch the graph of y = f(x), clearly labeling all important points and showing all features.

2. [5 points] Consider the function y = f(x) whose graph is shown below.



- (a) Find the domain.
- (b) Find the vertical asymptotes.
- (c) Find the horizontal asymptote.
- (d) Find the *y*-intercept.
- (e) Find the *x*-intercept(s).
- (f) Find a possible formula for f(x).