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 $f(x)$.
