Name:
Problem 1: Consider the rational function given by the following rule:

$$
f(x)=\frac{x+1}{x^{2}-x-2}
$$

a) What is the domain of this function?
b) Does this function have one or many vertical asymptotes? If so, give the equation of each vertical asymptote.
c) Does this function have one or many holes (or removable discontinuities)? If so, give the $x$-coordinate of each hole (or removable discontinuity).

