Name:

Math 32, Spring 2010, Section 101 Quiz 5

(1) (3 pts) Find the domains of the following functions.

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

b)
$$g(x) = \frac{1}{2^x - 1}$$

(2) (3 pts) Graph the curve $y = (x+1)^2(x-1)(x-3)$. Give the coordinate(s) of any x-intercepts, y-intercepts, and any vertical or horizontal asymptotes.

(3) (4 pts) Graph the curve $y = \frac{3x^2}{(x-1)(x+3)}$. Give the coordinate(s) of any x-intercepts, y-intercepts, and any vertical or horizontal asymptotes.