- 1. f is a power function.
- 2. f(1) = -7.
- 3. f(2x) = 8f(x), for every x.

Determine the exact formula for f(x).

(3.) (6 points) Let $f(x) = \frac{x^2-1}{x-1}$, and let g(x) = x + 1.

(a) Are f and g the same function? Why or why not?

(b) Let h be the function whose output is always 4, except that h(-1) is undefined. Write a formula for h(x) as a rational function.