Mastery Check

1) Determine whether the equation represent y as a function of x.

$$y = \sqrt{x+5}$$

2) Determine whether the equation represent y as a function of x.

$$y^2 = x^2 - 1$$

3) Evaluate the function at each specified value of the independent variable and simplify.

$$f(x) = \begin{cases} x^2 + 2, & x \leq 1 \\ 2x^2 + 2, & x > 1 \end{cases}$$

(a) $f(-2)$ (b) $f(1)$ (c) $f(2)$