## Functions and models



Functions and Models Which of the following are functions? The last two problems, i. e., b & c, are multi part relations consider all parts when determining whether or not these relations are functions. Explain your reasoning for a, b, and c.

a. 
$$f(x) = x + 5$$

(a) is a function, as the f(x) returns a distinct output for every value of x.

b. f(x) = 3 if x > 2 otherwise f(x) = -2

(b) is also a function, as the output is distinct for every input value of x. It is clear that f(x) will be 3 for all values above 2 and will be equal to -2 for all other values of x.

c. f(x) = 7 if x > 0 or f(x) = -7 if x