## 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 $x$

