## Function Graphs

For each of the following function definitions, give the graph of the function. Say whether this is a partial function or a total function on the integers. If the function is partial, say where the function is defined and undefined.

For example, the graph of $f(x)=$ if $x>0$ then $x+2$ else $x / 0$ is the set of ordered pairs $\{\langle x, x+2\rangle \mid x>0\}$. This is a partial function. It is defined on all integers greater than 0 and undefined on integers less than or equal to 0 .

Functions:

1. $f(x)=$ if $x+2>3$ then $x * 5$ else $x / 0$
2. $f(x)=$ if $x<0$ then 1 else $f(x-2)$
3. $f(x)=$ if $x=0$ then 1 else $f(x-2)$
