4.2 Identify Discrete and Continuous Functions

The graph of a function can consist of ________________ ________ or be a __________ or a part of a _____ with no breaks.

Graph the function $y=2x-1$ or $f(x)=2x-1$ (function notation) with the given domain.

a. $D:\{0,1,2,3\}$

b. $D: x\geq0$

What kind of function is it?

- Is a bank account balance a continuous function?
- How about number of pets per household?
- Gallons of gas in your car?
- Number of days that students rode bikes to school in a given week?

A discrete function:

A continuous function: