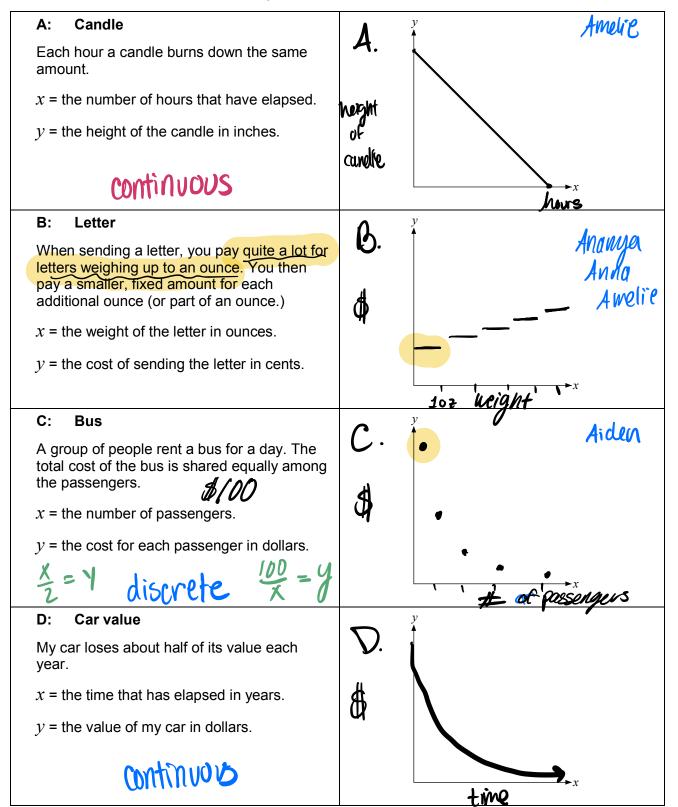
Four Situations

1. Sketch a graph to model each of the following situations.

Think about the shape of the graph and whether it should be a continuous line or not.

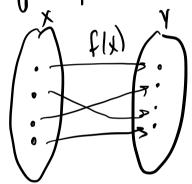


Function

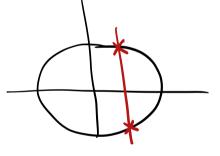
→ change?

1- mput, output, timear lines

every input has one output.



example: Linear function (line) nonexamples: circle, elipse,



Features of functions

De the domain is the set of allowable valves that can go to the input of a function.

 $\frac{2}{-10} - \frac{1}{5} \quad 0 \quad \frac{1}{5} \quad 10$

time is just positive. $(-\infty, \infty) \leftarrow \text{exclusive}$ $(0, \infty)$

D3) the range is the set of output values. ly-values)

the y-intercept
upolive where we cross the
y-axis

 \rightarrow algebraically happens when x=0

Des the x-intercept (s)
valves where we cross the
x-axis

algebraically happens when y=0