

Working backwards → use a T-chart to come up with the equation.

Write a function rule for the following T-charts

X	Y
-4	-20
0	0
2.1	10.5
3	15

$$y = 5x$$

X	F(x)
-5	25
-2	4
6	36
7	49

$$f(x) = x^2$$

X	Y
-3	-5
0	1
2	5
3	7

$$y = 2x + 1$$

X	F(x)
4	-2
25	5
25	-5
36	6

~~$y = \sqrt{x}$~~
NOT a function

X	F(x)
-4	2
-2	1
0	0
2	-1

$$f(x) = \frac{1}{2}x \quad \text{OR} \quad f(x) = \frac{-x}{2}$$

X	Y
-2	-10
3	5
4	8
7	17

$$y = 3x - 4$$

When it asks for a rule it's talking about an equation

Having a domain of zero tells us if the equation has a number being added or subtracted