

Name: _____

WRITING A FUNCTION RULE

ASSIGNMENT

Create a t-table based on the function. Then state the domain and range.

x	f(x)			
5	8	5 → $x + 3$	1 → $x + 3$	10 → $x + 3$
1	4	↓ 8	↓ 4	↓ 13
10	13			

x	f(x)			
-2	2	-2 → $x^2 - 2$	0 → $x^2 - 2$	2 → $x^2 - 2$
0	-2	↓ 2	↓ -2	↓ 2
2	2			

x	f(x)			
4	-10	4 → $-3x + 2$? → $-3x + 2$	2 → $-3x + 2$
-4	14	↓ -10	↓ 14	↓ -4
2	-4			

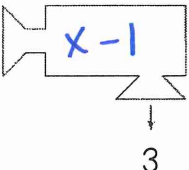
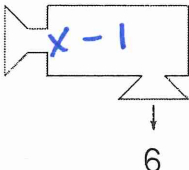
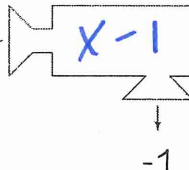
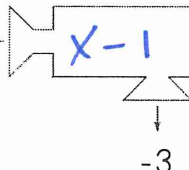
$-3x + 2 = 14$
 $-2 - 2$
 $-3x = 12$
 $\frac{-3x}{-3} = \frac{12}{-3}$ $x = -4$

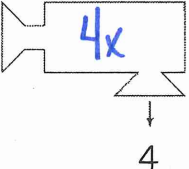
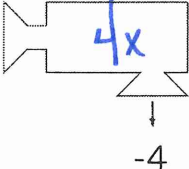
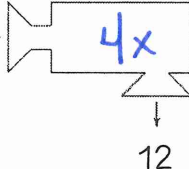
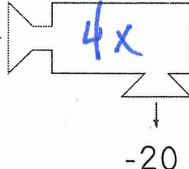
x	f(x)			
-3	-13	→ $4x - 1$	→ $4x - 1$	2 → $4x - 1$
0	-1	↓ -13	↓ -1	↓ 7
2	7			

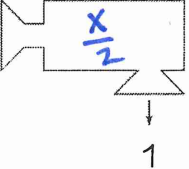
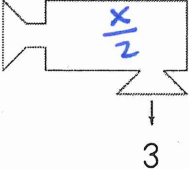
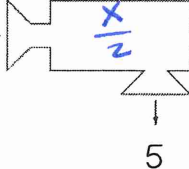
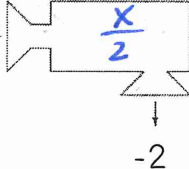
$4x - 1 = -13$
 $+1 +1$
 $4x = -12$
 $x = -3$

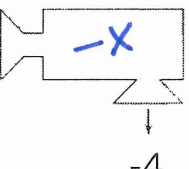
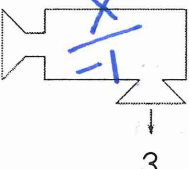
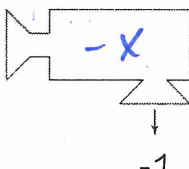
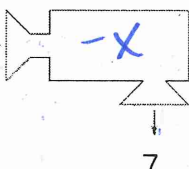
$4x - 1 = -1$
 $+1 +1$
 $4x = 0$
 $\frac{4x}{4} = \frac{0}{4}$
 $x = 0$

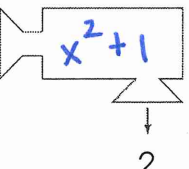
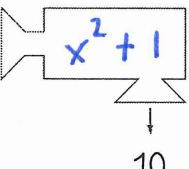
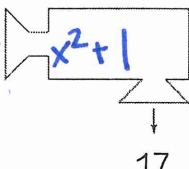
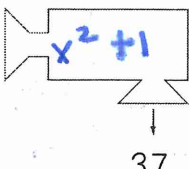
Create a t-table based on the function. Then write the function.

x	f(x)	4 →	7 →	0 →	-2 →
4	3				
7	6				
0	-1				
-2	-3				

x	f(x)	1 →	-1 →	3 →	-5 →
1	4				
-1	-4				
3	12				
-5	-20				

x	f(x)	2 →	6 →	10 →	-4 →
2	1				
6	3				
10	5				
-4	-2				

x	f(x)	4 →	-3 →	1 →	-7 →
4	-4				
-3	3				
1	-1				
-7	7				

x	f(x)	1 →	3 →	4 →	6 →
1	2				
3	10				
4	17				
6	37				