

4.6

Constructing Functions

1) Need to know rate of change = (slope, $\frac{\text{rise}}{\text{run}}$, $\frac{\Delta y}{\Delta x}$)

2) Need to initial value = (Y-intercept)
or $y = mx + b$

E
EX. 3
P. 321
in WKBK

	X	Y	
	# months	\$ saved	
+1	3	110	} +20
+1	4	130	
+1	5	150	} +20
	6	170	

$\frac{20}{1}$ Rate of change

rate of change

saving \$20 per month

initial value

0	50
1	70
2	90
3	110
4	130

initial value \$50

she started w/ \$50.00

ex 2
p. 324
WKBK

- Joan 12 photos per week
- After 8 weeks she has 120 photos

① Rate of change = 12

② Initial value = 24

$$y = mx + b$$

$$120 = 12(8) + b$$

$$120 = 96 + b$$

$$-96 = -96$$

$$24 = b$$

OK

could have done a table

0	24	
1	36	
2	48	
3	60	
4	72	
5	84	
6	96	$\frac{108}{-12}$
7	108	$\frac{120}{-12}$
8	120	108