EE.9: Using Equations to Describe Patterns in Input/Output Tables

You can use equations to describe patterns. Input/output tables can help determine a given pattern and help to create an equation.

1. The table shows Bobbi's age, b, when Timmy, t, is age 7, 9, and 10. Write a rule and an equation that describes a pattern. Then find Bobbi's age when Timmy is 12.

Timmy's age, t	Bobbi's age, b
7	2
9	4
10	5
12	

EQUATION: _____

In 2 through 5, write a rule and an equation to fit a pattern in each table.

2.

x	y
1	33
2	34
3	35
4	36

EQUATION: _____

3.

m	n
1	3
2	6
3	9
4	12

EQUATION: _____

4.

a	b
3	17
6	20
9	23
12	26

5.

x	y
6	1
12	2
18	3
24	4

EQUATION: _____   EQUATION: _____

In 6 through 8, use the equation to complete each table.

6.   t = 5d

d	0	1	2	3	4
t	0	5			

7. b = $\frac{a}{2}$

a	16	14	11	8	5
b					

Challenge:
8. y = 2x – 7

x	4	5	6	7	8
y					