Lesson 2.5T ~ Recursive Routines to Equations

Name

Period

Date

WRITING EQUATIONS FROM RECURSIVE ROUTINES

$$y = \underline{\qquad} \pm \underline{\qquad}$$
Start Value

Rate of Change

Match each recursive rule with its slope-intercept equation.

Rate of Change: 7

A.
$$y = -5 + x$$

Rate of Change: $-\frac{1}{3}$

B.
$$y = -8 + \frac{1}{3}x$$

Rate of Change: 5

C.
$$y = 2x$$

Rate of Change: $\frac{1}{3}$

D.
$$y = 3 - 2x$$

Rate of Change: -2

E.
$$y = 7 + 5x$$

6. Start Value: 3 Rate of Change: 0

F.
$$y = -3 + 2x$$

7. Start Value: -3

Rate of Change: 2

G.
$$y = 3$$

8. Start Value: 0

Rate of Change: 2

H.
$$y = 5 + 7x$$

9. Start Value: -5

Rate of Change: 1

I.
$$y = -8 - \frac{1}{3}x$$

10. Start Value: -2

Rate of Change: 6

J.
$$y = 9 + 1.5x$$

____11. Start Value: 9

Rate of Change: 1.5

K.
$$y = -2 + 6x$$

Determine the rate of change and the start value for each table. Write an equation in slope-intercept form.

-1	1 1	
	I 7.	

	到海路
0	6
1	9
2	12
3	15
4	18

Rate of Change:

Start Value: _____

Equation:

14.

0	0
3	12
4	16
7	28
8	32

Rate of Change:

Start Value: _____

Equation:

16.

-2	10
1	13
3	15
4	16
10	22

Rate of Change:

Start Value: _____

Equation:

13.

0	17
1	12
2	7
3	2
4	-3

Rate of Change:

Start Value:

Equation:

15

5.	(FEET)	
	-2	0
	0	20
	2	40
	4	60
	6	80

Rate of Change:

Start Value:

Equation:

17.

*		
	3	2.5
	4	3
	5	3.5
	6	4
	7	4.5

Rate of Change:

Start Value: _____

Equation: