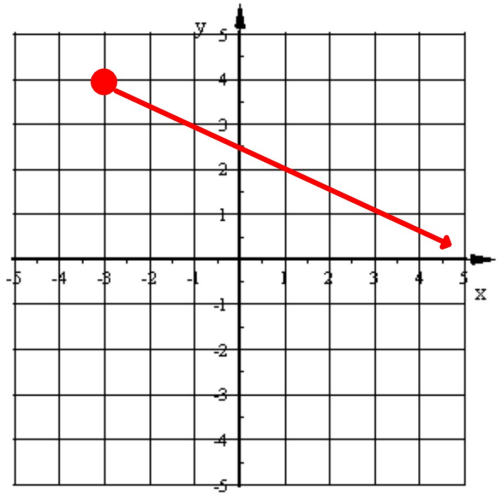
What is the domain and range?



$D: x \geq -3$

$R: y \leq 4$

Section 5-4: Writing Function Rules (equations)

Write a function rule to model the data in each table.

1.

X	Y
−5	−10
−2	−7
0	−5
3	−2
7	2

$y = x - 5$

2.

X	Y
-4	-10
-2	-5
2	5
4	10

$y = 2.5x$

3.

X	Y
-24	6
-16	4
0	0
8	-2
12	-3

$y = \frac{x}{-4}$

Write a function rule to model the data in this table.

X	Y	Before subtract 3
-2	-7	-4
-1	-5	-2
0	-3	0
1	-1	2
2	1	4

$y = 2x - 3$

x	y	
-2	-2	-6
-1	1	-3
0	4	0
1	7	3
2	10	6

Before add y

$y = 3x + 4$

Write a function rule for each situation.

1. The total hours spent cutting lawns if each lawn takes 1.25 hours to cut.

$T = 1.25l$

T = TOTAL hrs
l = # lawns

2. A rental car costs $18.50 for the day plus $0.25 per mile for every mile over 100 miles.

$T = .25m + 18.50$

T = TOTAL COST
m = # miles after 100

3. The number of stamps Juan has if he has three more than Ali.

$J = A + 3$

J = # stamps for Juan
A = # stamps for all

4. The amount of Yolanda's paycheck if gets paid 5% of her total sales each month.

Y = amt of pay
S = total sales

$Y = .05 \cdot S$

Hwk #3

Sec 5-4

due tomorrow

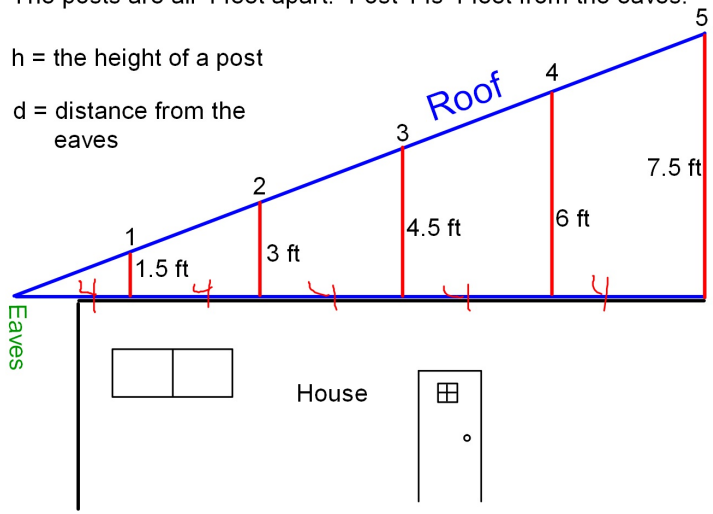
Pages 256 - 257

Problems 7, 8, 12, 13, 14, 17, 24

The posts are all 4 feet apart. Post 1 is 4 feet from the eaves.

h = the height of a post

d = distance from the eaves



Find the ratio $\frac{h}{d}$ for each post.

POST	h	d	$\frac{h}{d}$
1	1.5	4	$\frac{1.5}{4} = .375$
2	3	8	$\frac{3}{8} = .375$
3	4.5	12	$= .375$
4	6	16	$= .375$
5	7.5	20	$= .375$