Day 5

#9 HW Graphing

Name_____

Determine if the data represents a linear function. Show why or why not.

1.

x	2	5	8	11
y	9	17	25	33

Yes

each x only one y value

Rate of Change = $\frac{8}{3}$

2.

x	3	9	15	21
y	1	4	10	19

6 6 6

3 6 9

NO

3.

x	2	3	4	5
y	0	1	2	0

1 1 -2

NO

4.

x	-3	-1	1	3
y	1	1.5	2	2.5

2 2 2

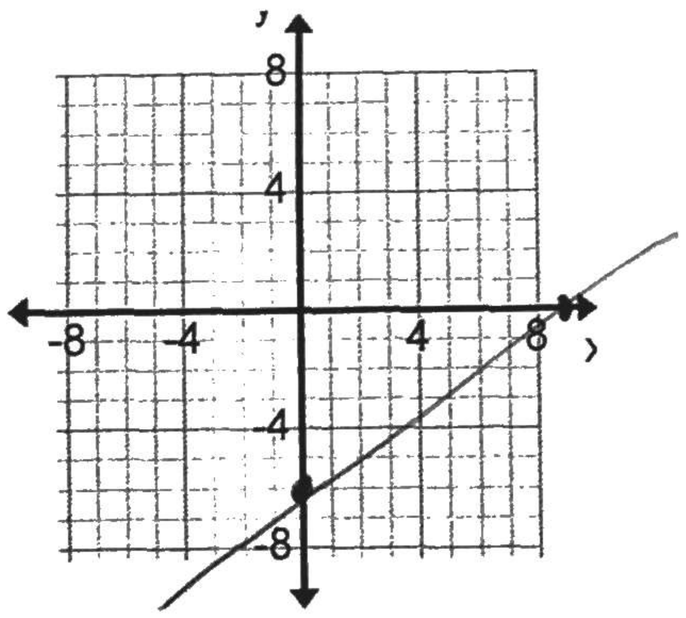
.5 .5 .5

Yes

$m = \frac{.5}{2}$

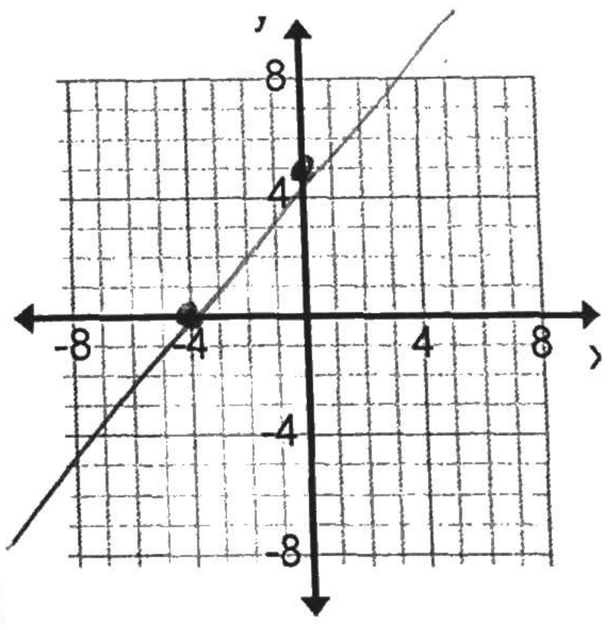
Find the x- and y- intercepts, then graph.

5. $2x-3y=18$



x-int: (9, 0) y-int (0, -6)

6. $5x+4y=-20$

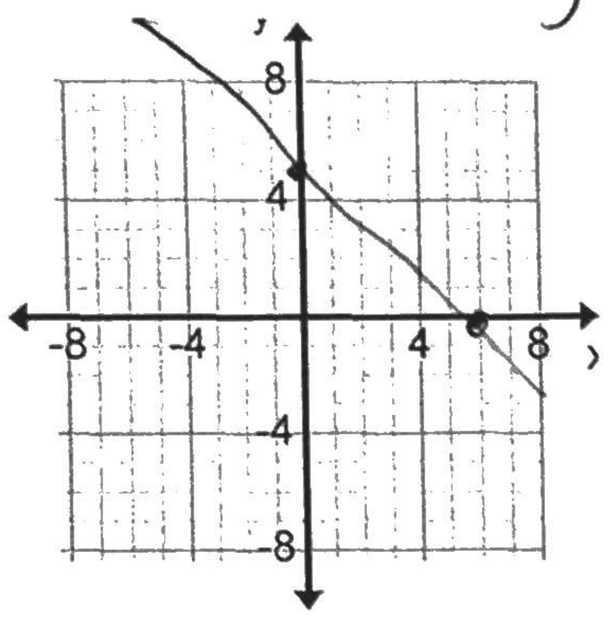


x-int: (-4, 0) y-int: (0, 5)

Write each relation in slope intercept form (if possible), identify the slope and y-intercept and graph.

7. $5x+6y=30$

$y = \frac{-5x}{6} + 5$

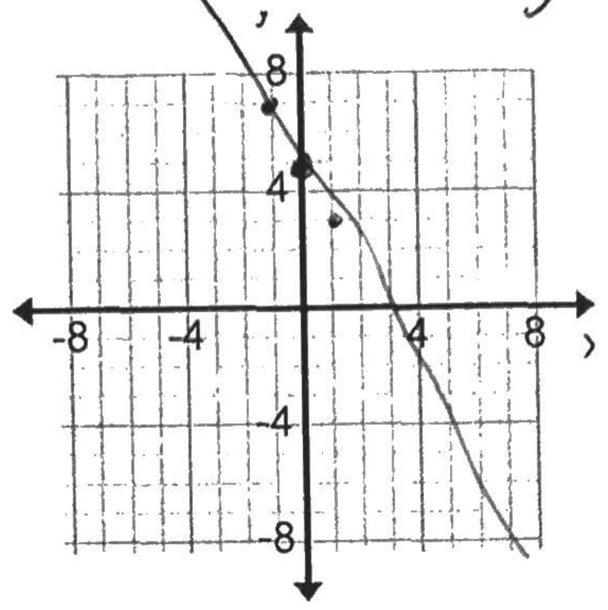


Slope= $-5/6$

y-int: $(0,5)$

8. $3y=15-6x$

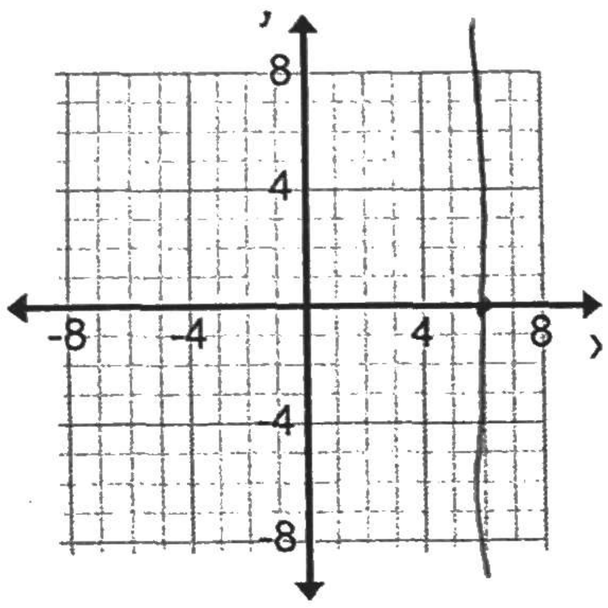
$y = -2x + 5$



Slope= -2

y-int: $(0,5)$

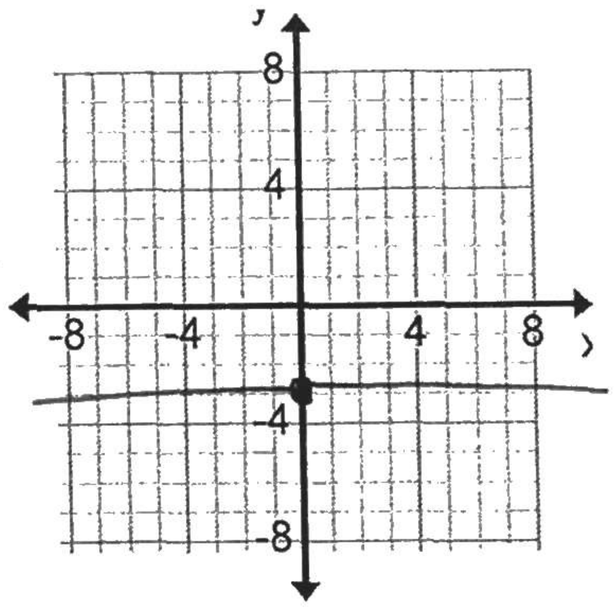
9. $x=6$



Slope= undefined

y-int: none

10. $y=-3$



Slope= 0

y-int: $(0,-3)$