WARM-UP

$$(4)$$
 m

 (4) m

 $($

Unit 4 Linear Relations

2

aquation number.

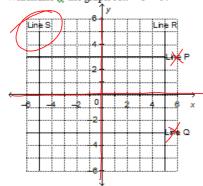
Figure,f	1	2	3	4	5
Number of Triangles,t	2	4	6	8	10

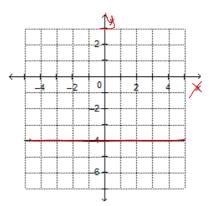
Complete the table of values.

$$x = 2$$
 $y = 9 - 5x$
 $y = 9 - 5(a)$
 $y = 9 - 10$
 $y = -1$

$$x=6$$
 $y=9-54$
 $y=9-5(6)$
 $y=9-30$
 $y=-21$

3. Which line is the graph of x + 5 = 0?





4. Write an equation that describes the line.

Which equation describes a horizontal line? i) x+9=2ii) y-x=0iii) y-x=0

i)
$$x + 9 = 2$$

ii) $x + x = 9$

ii)
$$y + x = 9$$

iii) $y - x = 0$

$$y - x = 0$$

6. Which equation describes the graph?

i)
$$x+y=3$$

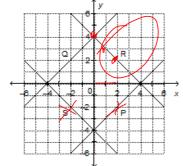
(1)
$$x + y = 3$$

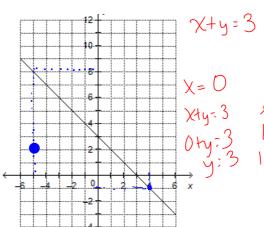
iii)
$$y-x=3$$

iv)
$$x + y = -3$$

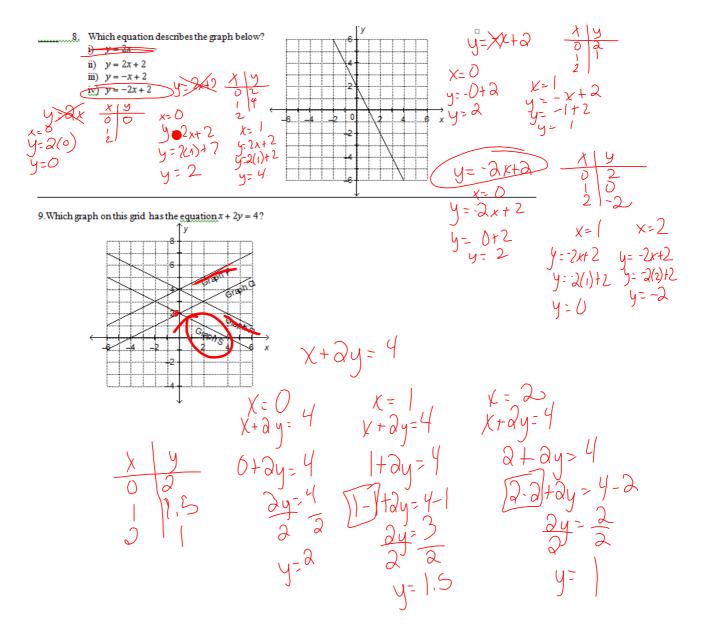
If "x=4 What is y=-If 'y"= 8 what is x = ...

7. Which line represents the equation x + y = 4?





$$X = 0$$
 $X = 1$ $X = 2$
 $X + y = 4$ $X + y = 4$
 $0 + y = 4$ $1 + y = 4$
 $y = 4$ $1 + y = 4 + 2$
 $y = 3$ $y = 3$



- 10. Shirley has \$540 in her bank account. She withdraws \$35 each week to cover her expenses.
- A)Write an equation that relates the amount of money in her account, A dollars, after n weeks.

$$A = 540 - 350$$

b) Determine the amount of money in Shirley's account after 8 weeks.

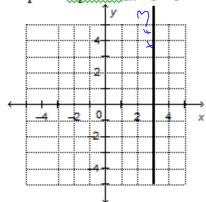
$$\begin{array}{cccc}
A & 540 - 35n \\
540 - 35(8) \\
540 - 280 & = 260
\end{array}$$

- 11. Dorina is having a party. She estimates that she will need 5 sandwiches for each guest, and 12 extra sandwiches for unexpected guests.
- b) How many sandwiches will Dorina need for 16 guests?

12. This is a partially completed table of values for a linear relation. Determine the missing values of y. 45 x increases by 2 g increases by 11.

y 6 , 17 28 39 50	x	1	3	5	7	9
1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	y	6	, 17	28	39	<i>5</i> 0

- at represents the linear relation.
- 13. Graph the equation 2x 3 = 3.



$$2x-3=3$$
 $2x-3+3=3+3$
 $2x=6$
 2

. Match each equation with a graph on the grid below. i) y = 2x - 1

ii) y = 2x + 4iii) y = 2x - 5

y = 2 p-1 x=0 y=7x+4

x= 2 y= 2x-S y= 2(2)-5

* Complete Chp 4 Review [Mark on sheets]

* Make Sure 1-28 from Chp 6

day 4 worksheet.doc