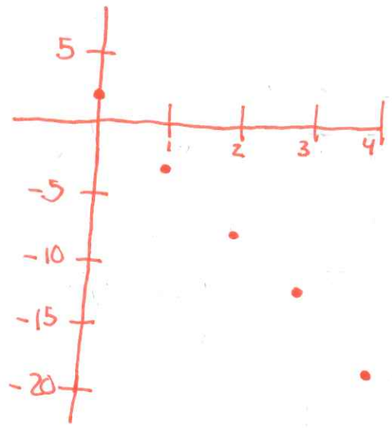
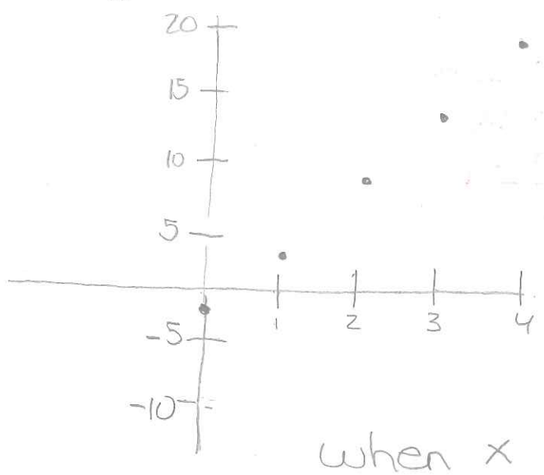
29. Graph $y = -5x + 2$ for integer values of x from 0 to 4

x	y
0	2
1	-3
2	-8
3	-13
4	-18



30. Describe the relationship between the variables x and y in this graph, $y = 5x - 2$



	x	y
+1	0	-2 (+5)
+1	1	3 (+5)
+1	2	8 (+5)
+1	3	13 (+5)
	4	18

when x increases by 1
y increases by 5

M8 Chapter 6 Practice Test

Name _____

Blk _____

1. Solve $6x = 42$ $6(7) = 42$

÷6 ÷6

$x = 7$

2. Six more than five times a number is 41. Let n be the #. Solve for n. $5(7) + 6 = 41$

$5x + 6 = 41$
$-6 \quad -6$
$5x = 35$
$\div 5 \quad \div 5$
$x = 7$

3. Eight less than four times a number is 40. Let n be the #. Solve for n. $4(12) - 8 = 40$

$4x - 8 = 40$
$+8 \quad +8$
$4x = 48$
$\div 4 \quad \div 4$
$x = 12$

4. Write an equation for: twelve more than a number is 34. $x + 12 = 34$

5. Write an equation for: 3 times a number less 6 is 21. $3x - 6 = 21$

6. Write an equation for: Bob has 'r' rocks. He threw 12 in the ocean and has 16 left. $r - 12 = 16$

7. Solve $8x + 3 = 27$ $x = 3$

8. Solve $52 - 4x = 16$ $x = 9$

9. Solve $-13 + 5x = 22$ $x = 7$

10. Write an equation for: a # divided by 6 is 9 $\frac{x}{6} = 9$

11. Braiden thinks of a #. He divides it by 6, and subtracts 5. The answer is 37. Write an equation. $\frac{x}{6} - 5 = 37$

12. Solve $\frac{x}{-8} = -7$ **x = 56**

13. Solve $12 + \frac{b}{5} = 19$ **x = 35**

14. Solve $\frac{r}{12} - 6 = 2$ **r = 96**

15. Evaluate $6(4+9)$ **78**

16. Expand $8(x-4)$ **8x - 32**

17. Expand $-4(m+6)$ **-4m - 24**

18. Expand $-2(e-7)$ **-2e + 14**

19. Solve $7(x-6) = 56$

$7x - 42 = 56$

$7x = 98$

x = 14

20. Solve $-36 = 3(x+4)$

$-36 = 3x + 12$

$-48 = 3x$

-16 = x

21. Solve $-7(a+3) = 21$

22. Solve $48 = 6(x-5)$

$48 = 6x - 30$

$78 = 6x$

13 = x

23. Complete a TOV for the relation $y = x - 4$

x	1	2	3	4
y	-3	-2	-1	0

24. Complete a TOV for $y = x - 4$

x	-3	-2	-1	0
y	-7	-6	-5	-4

25. Complete a TOV for $y = x - 12$

x	-4	-3	-2	-1
y	-16	-15	-14	-13

26. The ordered pair $(2, \_)$ is in the linear relation with the equation $y = -6x - 2$. Find the missing #.

$y = -6(2) - 2$ $y = -14$ **(2, -14)**

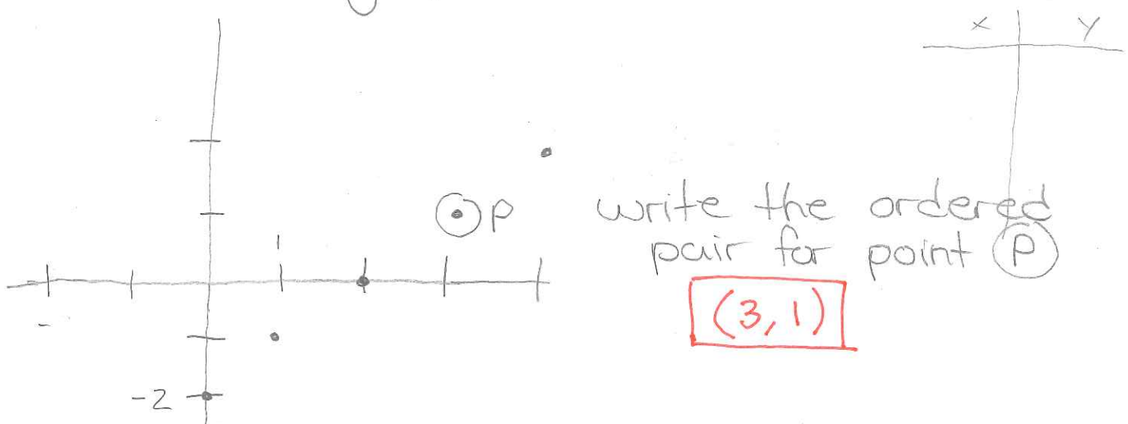
27. Same as 26. using $(\_, 4)$ and $y = 4x + 6$

$4 = 4x + 6$

$-2 = 4x$

$-\frac{1}{2} = x$

28. The graph shows $y = x - 2$



write the ordered pair for point (P)

(3, 1)