Lesson 1.1 Notes

Solve each equation.

1) 2(w-3) + 5 = 3(w-1)3) 4(2x+7) - 6 = 3xDistribute Distribute 2w - 6 + 5 = 3w - 38x + 28 - 6 = 3xCombine -6+5 Combine 28-6 2w - 1 = 3w - 38x + 22 = 3x-2w - 2w-8x - 8x-1 = w - 322 = -5x+3 +3-5 -5 2 = w $-\frac{22}{5} = x$ 2) 3(2z+25) - 2(z-1) = 78 $-4\frac{2}{5} = x$ Distribute 4) 4(k+3) + 2 = 4.5(k+1)6z + 75 - 2z + 2 = 78Distribute Combine 6z-2z & 75+2 4k + 12 + 2 = 4.5k + 4.54z + 77 = 78Combine 12+2 -77 - 774k + 14 = 4.5k + 4.54z = 1-4k -4k4 4 14 = 0.5k + 4.5 $z = \frac{1}{4}$ -4.5 - 4.59.5 = 0.5k0.5 0.5 19 = kDetermine the y-value of each ordered pair based on the given x-value.

5) y = -2x - 4 (1,), (-2,), (0,) y = -2(1) - 4 y = -2(-2) - 4 y = -2(0) - 4 y = -2 - 4 y = 4 - 4 y = 0 - 4 y = -6 y = 0 y = -4(1, -6), (-2, 0), (0, -4)

6) y = -8x + 1	(-8,), (5,), (-1,)	
y = -8(-8) + 1	y = -8(5) + 1		y = -8(-1) + 1
y = 64 + 1	y = -40 + 1		y = 8 + 1
<i>y</i> = 65	y = -39		<i>y</i> = 9
(-	-8,65), (5, -39), (-1,9)		

Fill in the table. Then explain how you figured out the values to put in each cell.

7) You are saving money from your paycheck every month. You already have \$100 in savings and you have committed to saving \$40 per month.

# of months	1	2	3	4	5	6	7
Amount of money saved	\$140	\$180	\$220	\$260	\$300	\$340	\$380

I started at \$100 and add \$40 times the number of months.

Graph the ordered pairs from the table on a graph.

8)

x	у
0	8
1	6
2	4
4	0
8	-4

