## QUIZ \#1 @ 20 points

## Section 3.1

1. Decide whether the given pair is a solution of the given equation.

$$
2 x+y=5 ; \quad(3,-1)
$$

$x=3, y=-1$
$2(3)+(-1)=5$
$6-1=5$ true, therefore $(3,-1)$ is a solution of the given equation.
2. Complete each table of values and then plot the ordered pairs. Label the axes and the points. Show all work.
$3 x-4 y=12$

| $x$ | $y$ |
| :---: | :---: |
| 0 | -3 |
| 4 | 0 |
| -4 | -6 |
| $-\frac{4}{3}$ | -4 |

If $x=0 \Rightarrow-4 y=12$, so $y=-3$
If $y=0 \Rightarrow 3 x=12$, so $x=4$

If $x=-4 \Rightarrow 3(-4)-4 y=12$
$-12-4 y=12$

$-12-12=4 y$
$-24=4 y$, so $y=-6$
If $y=-4 \Rightarrow 3 x-4(-4)=12$
$3 x+16=12$
$3 x=12-16$
$3 x=-4$, so $x=-\frac{4}{3}$
3. It costs a flat fee of $\$ 20$ plus $\$ 5$ per day to rent a pressure washer. Therefore, the cost to rent the pressure washer for $x$ days is given by $y=5 x+20$, where y is in dollars.
Express as an ordered pair each of the following.
a) When the washer is rented for 5 days, the cost is $\$ 45$.
b) I paid $\$ 50$ when I returned the washer, so I must have rented it for 6 days. $(6,50)$

