$\qquad$ Per: $\qquad$
NO WORK, NO CREDIT. PENCIL ONLY.
Find the $y$-intercept from the tables: Don't forget to list as a coordinate point. For EC, find $x$-intercepts.
1.

| $X$ | $Y$ |
| :---: | :---: |
| 2 | 7 |
| 0 | 1 |
| 5 | 16 |

2. 

| $X$ | $Y$ |
| :---: | :---: |
| 1 | -3 |
| 4 | 9 |
| 0 | -7 |

4. 

| X | Y |
| :---: | :---: |
| 5 | 23 |
| 4 | 21 |
| 3 | 19 |

Find the slope and intercepts from the following points and then write the equation of the line that goes through the two given points.

EX: $(0,1)$ and $(2,7)$

| $X$ | $Y$ |
| :---: | :---: |
| 0 | 3 |
| 2 | 7 |

5. $(3,6)$ and $(0,8)$
6. $(3,7)$ and $(6,13)$
7. $(4,8)$ and $(2,5)$

Slope: $\qquad$
y-intercept: $\qquad$
x-intercept: $\qquad$
Eq: $\qquad$

Slope: $\qquad$
y-intercept: $\qquad$
x-intercept: $\qquad$
Eq: $\qquad$

Slope: $\qquad$
y -intercept: $\qquad$
x-intercept: $\qquad$
Eq:

Find the equation from the given point and slope.
EX: Slope $=2 \&$ point $(6,1)$

$$
\begin{gathered}
1=2(6)+b \\
1=12+b, s o, b=-11 \\
\boldsymbol{y}=\mathbf{2 x}-\mathbf{1 1}
\end{gathered}
$$

9. $m=-5 \&$ point $\left(\frac{1}{5}, 8\right)$
10. $\mathrm{m}=1 / 2 \&$ point $(4,-2)$


Slope: $\frac{2}{1}$ or 2 y-intercept: $(0,3)$
x-intercept: $\left(-\frac{3}{2}, 0\right)$
Eq: $y=2 x+3$

Find the $\mathbf{y}$-intercept and x -intercept of the following equations:
10. $y=-18-2 x$
$y$-intercept :
x-intercept :
$\qquad$
$\qquad$
11. $3 x+6=y$
y -intercept : $\qquad$
x-intercept : $\qquad$

| EXAMPLE: | $6 \mathrm{x}+\mathrm{y}=-3$ |
| :---: | :--- |
| y -intercept is | x -intercept is |
| when $\mathrm{x}=0$, | when $\mathrm{y}=0$, |
| $6(0)+\mathrm{y}=-3$ | $6 \mathrm{x}+(0)=-3$ |
| $\mathrm{y}=-3$ | $6 \mathrm{x}=-3, \mathrm{x}=-1 / 2$ |
| $(0,-3)$ | $(-1 / 2,0)$ |

12. $3 x+5 y=-15$
$y$-intercept : $\qquad$
x-intercept : $\qquad$
13. $4 x-12 y=16$
$y$-intercept : $\qquad$
x-intercept : $\qquad$
14. $8 y+6 x=2$
$y$-intercept: $\qquad$
x-intercept: $\qquad$

Find the slope, $y$-intercept and equation of the line in the following graphs:

15.

17.

x-int: $\qquad$
Eq: $\qquad$
16.

Slope: $\qquad$
y-int: $\qquad$
19. Find the slope of line $x$.

20. Plot $\# 19$ on the grid and draw the squares to find the length of the hypotenuse.

21. Find the length of $x$.


For \#22 and \#23, graph 2 equations each on the coordinate grids.
22. $y=-\frac{3}{2} x+4$ $y=\frac{2}{3} x+1$

23. $y=-2 x-2$
$y=-2 x+1$


