## Date:

TSW write an equation of a line.

QRQ1:
Which equation is equivalent to $y=3 / 4 x-2$ ?

Which equation is equivalen $y=-5 x+3$
A $\frac{4 y}{4}=\frac{-3 x-8}{4}$
A $\frac{2 y}{2}=\frac{10 x-6}{2}$
$y=-\frac{3}{4}$
$y=5 x$
(B) $\frac{4 y}{4}=\frac{3 x-8}{4}$
B $\quad 2 y=10 x+6$
$y=\frac{3}{4} x-2$
$y=5 x$
C $\quad-4 y=3 x-8$
C $\quad \frac{-2 y}{2}=\frac{10 x+6}{-2}$
D $\quad \begin{aligned} & y=-5 x \\ & -2 y=\frac{10 x-6}{-2} \\ & -2\end{aligned}$
$y^{2}-5 x+3$

Answers to After Test3 Assignment:

a.) What is the $y$-intercept of this graph? $b=7$
b.) What is the slope of this graph?

$$
\frac{\text { rise }}{\text { run }} \quad m=-\frac{3}{1}
$$

c.) What is the equation of this line?

$$
\begin{aligned}
& y=m x+b \\
& y=-3 x+7
\end{aligned}
$$



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9. $\binom{-3,-5}{x}$
a) $y=4 x+7$
b) $2 x+6 y=36$
$-5 ? 4(-3)+7$ $2(-3)+6(-5) \div 36$
$-5 t-12+7$ $-6-30 \div 36$
$-5=-5 \checkmark$ $-36 \neq 36$
No yes

## Notes Handout:

Write an equation for each line that is graphed.
1.)

$m=\underline{\frac{5}{4}}$

$$
b=-\underline{-5}
$$

Equation of Line:
$y=\frac{5}{4} x-5$



How can you find the x-intercepts and y-intercepts of a graph without having the graph? Or without a graphing calculator?

11.) $-4 x+5 y=20$

To find the $x$-intercept
let $\mathrm{y}=0 \quad \frac{-4 x}{-4}=\frac{20}{-4}$
$x=-5$
To find the $y$-intercept
let $\mathrm{x}=0$

$$
\begin{aligned}
\frac{5 y}{5} & =\frac{20}{5} \\
y & =4
\end{aligned}
$$

$x$-intercept $=(-5,0)$
$y$-intercept $=(0,4)$
12.) $-9 x-2 y=36$

To find the x -intercept
let $\begin{aligned} \mathrm{y}=0 & \begin{aligned}-9 x & =\frac{36}{-9} \\ x & =-4\end{aligned}\end{aligned}$
To find the $y$-intercept
let $x=0 \quad \frac{-2 y}{-2}=\frac{36}{-2}$
$y=-18$
$x$-intercept $=(-4,0)$
$y$-intercept $=(0,-18)$

## Now Complete:

Handout

