

Use the answers from above to help you answer the following questions.

1. What are the intercepts of the original graph?
x-intercept: $\qquad$ $y$-intercept: $\qquad$
2. If the slope of this line is multiplied by -1 and the $y$-intercept decreases by 2 units, what is the linear equation that represents these changes?

New Equation: $\qquad$
3. How does the graph of $-4 x+2 y=8$ compare to the original graph of $-2 x+4 y=8$ ?

## True or False

$\qquad$ a) The slope of the original graph is steeper.
$\qquad$ b) The slope of the original graph is less steep.
$\qquad$ c) The original graph has a greater y-intercept.
$\qquad$ d) The original graph has a smaller y-intercept.
4. Write the equation of a line that passes through the point $(4,7)$ and is parallel to the original graph.

New Equation: $\qquad$
5. If $(6, y)$ is a point on the graph of the original function, what is the value of $y$ ?

Answer: $\qquad$
6. Complete the following statement for the equation $\mathrm{y}=\frac{2}{3} x-6$.

As the value of $x$ increases by $\qquad$ unit(s), the value of $y$ $\qquad$
by $\qquad$ unit(s).

