1) Line passess through (2,4)
2) Has the same y intercept as x-4y=8.

Solution:

1) To find the y intercept of the line x-4y=8, set x=0.

0-4y=8 set x=0 to isolate y

$$\frac{-4y}{-4} = \frac{8}{-4}$$ divide both sides by -4

y=-2

2) To find the slope, solve for m in y=mx+b.

4=m(2)-2 replace y with 4, x with 2 and b with -2

4=2m-2

4+2=2m move the 2 to the right side

6=2m add

$$\frac{6}{2} = m$$ divide both sides by 2 to get m=3

3) Write the final form as y=3x-2