College Review Math

Notes Section 4C (Reflections on the line y=x)

Work for the inverse equations is on the next page.

Graph each equation; list the coordinates you used in the first x/y-chart. Then, list the inverse coordinates in the second x/y-chart, and graph them on the same

x/y-axis as the first one. Lastly, give an equation for the reflected graph. Graph as you normally  $y = \frac{1}{3}x - 1$ would using y = mx + b, 1) х У then list the coordinates -1 0 3 0 -3 -2 (X) Х У 0 -1 3 0 -3 -2 Simply invert the coordinates from above to get the inverse 3) y = |x+2|+2У f(x) -2 2 3 -1 0 4 -3 2 3 -4

 $f^{1}(x)$ 

У

-2

-1

0

-3 -4

Х

2

3

4 2 3



## Inverse *equations*.

While it is possible to use the newly found inverse graph to write the inverse equation that it corresponds to, this won't always be the case, so...

