Ch-2	Review	~	Part	I

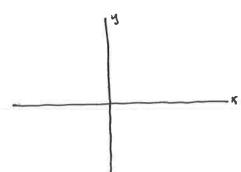
Name	 Per

- 1) Write a transformation equation, T(x), for each situation
 - a) y= \sqrt{x} after it has been translated 2 left, 5 down, and compressed vertically by 0.2
 - b) $y = 5^{x}$ after it has been translated 16 right, 3 down, and stretched vertically by 4.
 - c) $y = \frac{1}{x}$ after it has been translated down 100 and 200 UP:
 - (2) What is the domain of $y = \frac{1}{x-4}$?
 - 3) Factor the quadratic expression 10x2+11x-6 (not solve anything. Just factor).
 - Triangulum (M33) wants to find the exponential function that passes through the points (2,75.6) and (6,97977.6). Assuming that the graph has an asymptote at y=0, what is the equation of the function? Show all of your work!

(practice both methods ... Completing the square and Averaging the x-intercepts

Also, find the y-intercept.

6 Sketch $y = \frac{1}{X+4} + 5$. Then specify any asymptotes and their equations. Use "HA" for horizontal and VA for vertical



(7) Solve the system of linear equations

$$4x - y = -13$$

 $3x + 2y = 4$