Name: _____

Row and Seat:_____

In class work 2 has questions 1 through 3 with a total of 15 points. Turn in your work at the end of class *on paper*. This assignment is due *Wednesday 31 August at 13:15* P M.

$\boxed{5}$ 1. After graduation, suppose your starting salary is $46,000. Further, suppose that you expect to earn a 4.1% pay rise each year you work. What is your salary in your 40th year of work?

$\boxed{5}$ 2. The inequations $y = 3x+2$ and $0 \le x \le 2$ defines x implicitly as a function of y. Find an *explicit* representation of x as a function of y. Remember to find the allowed values of y.

5   3. Define $Q(x) = x^2 - 2x + 2$ and $\text{dom}(Q) = [1, \text{inf})$. Find the formula and the domain of Q^{-1}. Use desmos to graph both Q and Q^{-1}. As best you can, reproduce your graphs here.