

# WORKSHEET 0: 18 points

Math 6B-030, Spring 2021

Due: Friday, April 2nd, 11:59pm via Gradescope

This is an introductory worksheet and will not be counted towards the final grade. You will work on this worksheet during the discussion session on Wednesday. With the help of this worksheet you will refresh some concepts from 6A, get used to the worksheet format for the following weeks and practice uploading documents to gradescope.

**Instructions:** Submit your completed worksheet to [www.Gradescope.com](http://www.Gradescope.com). Log in with your [UCRNetID@ucr.edu](mailto:UCRNetID@ucr.edu) email and going to the assignment. Write your solutions to each question on a different paper, clearly labeling each question. Scan your work with a scanner or (free) scanning app to upload a **pdf (not images)** of your work to Gradescope.

**Group Instructions:** Please fill this form <https://forms.gle/YHpVub8HA1CNsX95A> after the discussion session on Friday, April 2nd. Please note that, groups will be formed based on your responses to this form and *you will work with the formed group throughout the quarter.*

**Question 1 (3 points)** Is there anything that you would like us (your TA & professor) to know? *You are welcome to share this with us via email or in person if you prefer.*

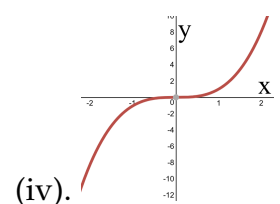
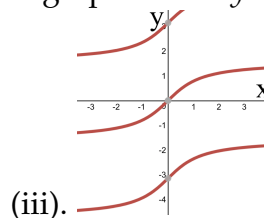
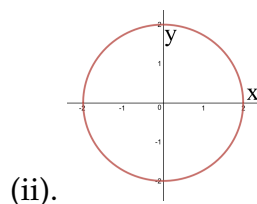
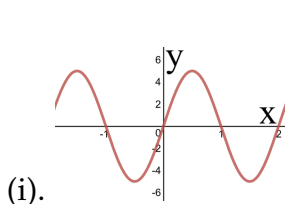
**Question 2 (3 points)** What do you hope to gain from this course?

*Discuss as a group. Think deeply – beyond grades and course credit – feel free to dream!*

**Question 3 (8 points) Functions**

(a). (1 point) What is the definition of a function? *Include in your answer: input, output, rule.*

(b). (4 points) Circle each number corresponding to a graph where  $y$  is a function of  $x$ .



(c). (1 point) From the graph of a function, what visual tool do you have to determine if the function has an inverse function?

(d). (2 points) What types of functions were discussed in Math 6A?

**Question 4 (4 points)** To get a deeper understanding of functions in 6A, we described functions using the rule of four (*visually, algebraically, numerically, & verbally*). Make up one exponential function,  $f(x)$ , and describe it in these four ways.