1. (2 Points) Using your own words, define what it means for $f$ to be a function. Provide two examples, at least one that’s a ‘non-equation’.

2. (3 Points)
   (a) What is the definition of slope?
   (b) Find the slope of the line that passes through the origin and an arbitrary point $P$ on the graph of $y = \sqrt{x}$.

3. (2 Points) Solve the following linear system:
   \[
   \begin{align*}
   x + y &= 2 \\
   4x - y &= 3
   \end{align*}
   \]

4. (3 Points) On the back side of this paper, sketch a graph of $y = 2\cos(2\pi x)$. What is the period and amplitude of the function?