

Math 1001 – Calculus I Lab– Spring 2025

w/Paul Carmody

First Day: Review– January 14, 2025

- Evaluate

$$\frac{x^5 y^{-2}}{x^3 y}$$

- Evaluate

$$\left(\frac{x^{-3}}{3y^{-1}} \right)^{-2}$$

- Is $x + y = 100$ a function? Explain your answer to your group.
- Is $x^2 + y^2 = 100$ a function?
- Is $y = \sqrt{x}$ a function ? Explain your answer to your group.
- Is $y = \sqrt[3]{x}$ a function ? Explain your answer to your group.
- Does te solution to $x^2 = y$ give us a function? Explain your answer to your group.
- Graph $2x + 3y = 7$ and explain its features (slope, y-intercept).
- Graph $x + 2y + 3z = 4$ can you draw the traces in each xy, yz an xz plane?
- Can you draw a diagram of De Morgan's Law?