

Quiz 4**Name:** _____**Total Points possible: 10****Math 12: Spring 2025**

Instructions: Each question is worth 3 points but the last question. Question 3 is worth 1 point. **Show all your work in order to receive credit.**

Problem 1. Is the following true or false? Show or explain your result.

(a) $(x + y)^2 = x^2 + y^2$

Problem 2. Simplify with positive exponent. $\left(\frac{x^{-3}c^{2-2}v^65^0}{v^{-6}x^39} \right)^{-2}$

Problem 3. Expand $(2x + 3y)^2$ and simplify.

Problem 4. Guess my age.