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. Distribute and simplify.

(a)
$$4(3x+y-7z+v^0)$$
 $v^0=1$
 $4(3x)+4y-41+2)+4$
 $12x+44y-28+2+4$

Problem 2. Simplify with positive exponent.
$$\left(\frac{x^2 e^6 b^{-4}}{x^4 b^4} \right)^{-2} = \left(\frac{x^2 b^{-4}}{x^2 b^4} \right)^{-2}$$

$$= \left(\frac{b^{-4}}{x^2 b^4} \right)^{-2}$$

$$= \left(\frac{1}{x^2 b^4} b^4 \right)^{-2}$$

Problem 3. Simplify 2x + 10x + |x| = 13

Problem 4. How do you feel about this quiz?