

Name: _____

Student ID: _____

Quiz 1

Question 1. (5 marks)

Simplify the following expressing your final answer using positive exponents only:

(a) $(n^{-2} - 2n^{-1})^2$

(b) $\frac{4a^{5/6} b^{-1/5}}{a^{2/3} b^2}$

Question 2. (3 marks) Solve for V_2 in the following formula:

$$P = \frac{V_1(V_2 - V_1)}{gJ}$$

Questions 3. (2 marks) Find the equation of the line that passes through $(1, -2)$ and is perpendicular to a line with a slope of 3.