

## Quiz 2 Rubric/Solution

**Name:**

**UAlbany Email:**

Closed book/notes. No calculators allowed. Show all your work.

1. Simplify the rational expression:

$$\frac{\frac{3}{a} + \frac{b}{6}}{\frac{2b}{3a}}$$

- (+3 Points) Combine numerator into a single fraction:  $\frac{3}{a} + \frac{b}{6} = \frac{18 + ab}{6a}$
- (+3 Points) Multiplied by the reciprocal:  $\frac{18 + ab}{6a} \cdot \frac{3a}{2b}$
- (+4 Points) Cancelled out like terms:  $\frac{18 + ab}{4b}$
- -1 Point for each minor error in each of the above steps

Grade: /10