# MATH 3631 - Actuarial Mathematics II <br> Spring 2020 - Valdez <br> Quiz No. 7 <br> Monday, 27 April 2020 

Name: $\qquad$ Student ID:

You are given the following information for Bill, now age 45, who just joined a DB pension plan:

- The plan provides a retirement pension of $2.5 \%$ of final average salary for each year of service. The final average salary is defined as the average salary in the two years before retirement.
- Retirement is at exact age 65 .
- Bill's projected salaries in the two years preceding retirement are:

$$
S_{63}=148,000 \quad S_{64}=150,250
$$

Calculate Bill's replacement ratio provided by his pension.

NOTE: Please submit your answers with a PDF file starting with your last name followed by an underscore and whatever else you wanna name it. For example, Valdez_Quiz7.pdf. Thank you and stay safe.

