

Introduction to Finance  
Quiz 3 *November 12, 2019*

1. Consider a standard 30-year, fixed-rate mortgage with monthly payments and interest rate of 4.5%, with \$300,000 principal.

(a) **(10 points)** What is the equivalent annual yield on this mortgage?

(b) **(25 points)** We can evaluate this annuity using two perpetuities. Explain what these 2 perpetuities are, how we use them to obtain the relevant Annuity Factor for this mortgage, and show the Annuity Factor for this mortgage.

(c) **(15 points)** What is the size of the monthly payment of this mortgage?

