Quiz 3 February 21, 2019

Instructions: Do all the problems on both sides of this paper. Show all your work.

Simple Interest Formula	$A = P(1 + APR \times Y)$
Compunded Interest Formula (compounding n times per year)	$A = P \left(1 + \frac{APR}{n} \right)^{nY}$
Continuously Compunded Interest Formula	$A = Pe^{APR \times Y}$

Rod and Todd just finished their chores and their father has given each of them \$50. They're having an arugment about what to do with their allowance. Help them determine the best possible investment strategy.

1. [5 points] Rod is going to invest in a 10 year treasury bond that pays (simple) interest at a rate of 2.5%. How much money will be have when the bond matures? (after 10 years)

2. **[5 points]** Todd is going to invest in a savings account at Sychrony Bank that pays 2.25% APR, compounded monthly. How much money will Todd have in 10 years?

		count that pays 2% of investing in his account.	APR and compounds count. Is he right?	continuously.	He is
4. [5 points]	What is the APY ((annual percent yeild) on Martin's account	?	