Quiz #2: Monday, Sep 19

Name:	Recitation R02 (M
An initial investment of 5000 grows at 20% per year.	
1. (5 points) Write a function $P(t)$ that gives the value of	the investment after t years.
0 (5 1) 7 14 1 (4 1 1 6 6	
2. (5 points) Find the value of the investment after 2 year	S.

Quiz #2: Monday, Sep 19

Name:	Recitation R02 (M)
The village of Northwesthampton, NY, has a popyear.	ulation of 4000 in 2011 and grows at 25% per
1. (5 points) Write a function $P(t)$ that gives the No	rthwesthampton population t years after 2011.
2 (5 noints) What is the population in 2013?	

Quiz #2: Tuesday, Sep 20

Name:	Recitation R04 (Tu)

A colony of *S. aureus* contains 800 bacteria at noon and 3200 at 2 pm.

1. (5 points) Write a function P(t) that gives the population of the colony t hours after noon.

2. (5 points) What is the population at 3 pm?

Quiz #2: Tuesday, Sep 20

Name:	Recitation R04 (Tu)
A 250-gram sample of the element calculonium-273 contain days.	ns only 10 grams of calculonium after 2
1. (5 points) Write a function $P(t)$ that gives the amount of	calculonium remaining after t days.
2. (5 points) How many grams are left after 3 days?	

Quiz #2: Wednesday, Sep 21

Name:	Recitation R03 (W)
The value of a used car t years old is given by $P(t) = 15$, 1. (5 points) How much is the car worth initially? What i	(3)

2. (5 points) Find the value of the car after 2 years.

Quiz #2: Wednesday, Sep 21

Name:	Recitation R03 (W)	
The population of a city is 1,600,000 $\left(\frac{5}{4}\right)^t$, where t is the n	umber of years after 2011.	
1. (5 <i>points</i>) What is the population of the city in 2011? What is the percent growth rate?		
2. (5 points) Find the population of the city in 2013.		