Project VII - Grading Worksheet

1. Showed how to get $Ps + v$ for the first compounding period

2. Showed how to get the formula later compounding periods and successfully got to $Ps^k + vs^{k-1} + vs^{k-2} + \ldots + vs + v$

3. Derived (with explanation) the formula for the geometric series

4. Evaluated the series with $1/2$ and $1/3$ correctly

5. Question 2.4- gave an acceptable argument for the formula and used it correctly for the series with $1/2$. Explained why we need $z < 1$.

6. Properly derived the formula $Ps^k + v(s^k - 1)/(s - 1)$

7. Correctly computed how much you have after 20 years and how much you put in over that time

8. Correctly computed the amount you would have had you not made regular deposits following the initial deposit and how much you would have made.

9. Came up with correct numbers for 2.2.3

10. Came up with correct numbers for 2.2.4

11. Made a conclusion somewhere about the results in 2.2.2-2.2.4

12. Correctly answered 2.2.5

13. Derived formula correctly in 2.2.6

14. Correctly computed when Bob overtook Alice.

15. Correctly computed how much each invested over this period of time and made some conclusion

16. Correctly derived the formula for 3.1
17. Correctly computed how long $600,000 would last
18. Correctly computed amount if you need it to last 30 years
19. Correctly derived formula for 4.1
20. Correct answers for 4.2 if you pay $200 a month
21. Correct answers for 4.2 if you pay $100 a month
22. Discussion for 4.2
23. Correct derivation for 6.1
24. Correct answer for 6.1
25. Correct answers for 7.1