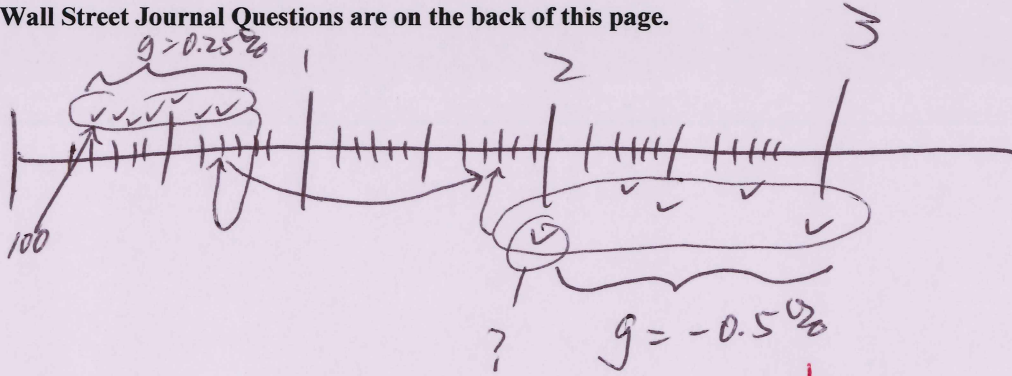


Quiz A for 2:30 Class: 9/10/12

Name Key

Assume that two months from today you plan to make the first of a series of seven monthly deposits into an account earning an APR of 6% with monthly compounding. The first of these deposits will equal \$100 and the deposits will grow by 0.25% each (after the first one). Two years from today, you plan to make the first of a series of five quarterly withdrawals from the account. These withdrawals will shrink by 0.5% each (after the first one). Set up the calculations to determine your first withdrawal. Note: You do not need to solve anything. Just set up all equations, plug in all the numbers you would need to solve the equations, and indicate which variable you are solving for (in each equation).

Wall Street Journal Questions are on the back of this page.



$$+4 \left(FV_{8mo} = \frac{100}{r(\frac{1}{12}) - 0.0025} \left(\left(1 + r(\frac{1}{12}) \right)^7 - (1.0025)^7 \right) \right) \textcircled{19}$$

$$+4 \left(PV_{1yr, 9mo} = \frac{C}{r(\frac{1}{4}) - (-0.005)} \left(1 - \left(\frac{1 - 0.005}{1 + r(\frac{1}{4})} \right)^5 \right) \right) \textcircled{23}$$

$$+4 \left(FV_{1yr, 9mo} = FV_{8mo} \left(1 + r(\frac{1}{12}) \right)^{13} \right) \textcircled{13}$$

$$+4 \left(r(\frac{1}{12}) = \frac{.06}{12} \right) \textcircled{10}$$

$$+4 \left(r(\frac{1}{4}) = \left(1 + r(\frac{1}{12}) \right)^3 - 1 \right) \textcircled{10}$$