Session 7: Post class test solutions

- 1. **c. \$1.045.** PV of \$25 a year for 10 years @2% + PV of 1000 at the end of year 10 = \$1045
- 2. **a. 1.4%.** This is the rate that gives you a present value of \$1,100 when you take the present value of \$25 a year for 10 years and \$1000 at the end of year 10.
- 3. **c. A 10-year bond with a 2% coupon rate.** The longer the maturity of the bond and the lower the coupon rate, the more sensitive the value will be to changes in interest rates.
- 4. **d. -11.3%.** The bond was trading at par before the downgrade. So, the market interest rate = coupon rate = 4%, before the downgrade. After the downgrade, that rate jumps to 5.5%. Keeping the coupons (\$40/year) and face value (\$1000) fixed, the price of the bond will drop to \$887 (discounting the cash flows at 5.5%).