

Practice Questions: Bond Valuation

1. All of the following are one of the relationships between yield changes and bond prices *except*
 - A. Bond prices move inversely to bond yields.
 - B. Longer-maturity bonds experience larger price changes than shorter-maturity bonds.
 - C. Bond price movements resulting from equal absolute increases or decreases in yield are symmetrical.

2. A bond is selling for 982.0 Baht. It is estimated that the price will fall to 966.0 Baht if yields rise 30 bps and that the price will rise to 1,001.0 Baht if yields fall 30 bps. Based on these estimates, the Effective Duration of the bond is *closest to*:
 - A. 1.78
 - B. 5.94
 - C. 11.88

3. The Modified Duration for a 10-year, 12% semi-annual pay coupon bond with a yield to maturity of 10 percent and a Macaulay duration of 7.2 years is *closest to*:
 - A. 6.55 years
 - B. 6.79 years
 - C. 6.86 years

4. A portfolio consists of 4 bonds with the following characteristics:

Bond	Market Value	Modified Duration
A	\$1.2 million	3.2
B	\$3.4 million	7.6
C	\$2.9 million	12.4
D	\$1.6 million	1.5

The duration of the portfolio is *closest to*:

- A. 5.40
 - B. 6.18
 - C. 7.48

5. If a Treasury bond has a modified duration of 10.27 and a convexity of 71.51. Which of the following is *closest to* the estimated percentage price change in the bond for a 125 basis point increase in interest rates?
 - A. -11.718%
 - B. -13.956%
 - C. -9.325%