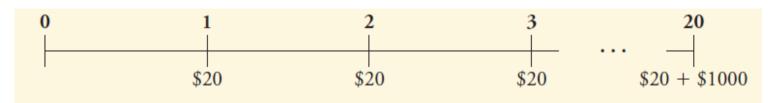
Assume that a bond will make payments every six months as shown on the following timeline (using six-month periods). Which of the following statements is true about the bond?



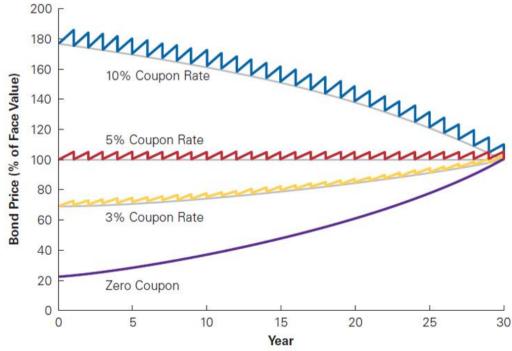
- The face value is \$20 **X** \$1000
- The maturity of the bond is 20 years X 10 years
- The coupon rate is 2% X 4%APR
- The yield to maturity cannot be determined ✓ It is determined by the market

If below is the curves between risk-free 30-year bond price and time, which is closest to the interest rate if it does not

change through the 30 years?

5%

• 5% coupon rate bond is sold at par



If the interest rate is 0, how is the yield to maturity of a risk-free bond

=0, by definition of interest rate

If the interest rate is 0, how is the yield to maturity of a risky bond which is believed to have 20% likelihood of default? In particular, the bond owners expect that they will be compensated for nothing if the bond is defaulted.

>25%

- Expected payment is 80% of Face Value
- Price is less than 80% due to requirements for risk premium
- YTM>1/80%-1=25%