```
The Deltona Instrument
   Company has 9 percent
 coupon bonds on the market
 with 6 years left to maturity.
   The bonds make annual
    payments. If the bond
  currently sells for $974.60,
      what is its YTM?
8.82 percent
8.90 percent
                                f(x) = 1000 + -974.6 * (1+x)^{6} + 90 [(1+x)^{6} - 1]/x
8.98 percent
9.58 percent
                                f'(x) = 6 * -974.6 * (1+x)^5 + 90 * (6 x (1 + x)^5 - (1 + x)^6 + 1) / (x^2)
9.63 percent
                                x = 0.1
                                f(x) = -32.1585
                                f'(x) = -7664.9133
                                x1 = 0.1 - -32.1585/-7664.9133 = 0.0958044599538
                                Error Bound = 0.0958044599538 - 0.1 = 0.004196 > 0.000001
                                x1 = 0.0958044599538
                                f(x1) = -0.3356
                                f'(x1) = -7505.3769
                                x2 = 0.0958044599538 - -0.3356/-7505.3769 = 0.0957597499751
                                Error Bound = 0.0957597499751 - 0.0958044599538 = 4.5E-5 > 0.000001
                                x2 = 0.0957597499751
                                f(x2) = -0
                                f'(x2) = -7503.6905
                                x3 = 0.0957597499751 - -0/-7503.6905 = 0.0957597449509
                                Error Bound = 0.0957597449509 - 0.0957597499751 = 0 < 0.000001
                                YTM = 9.58%
```

```
Annual YTM = 9.58%
```