Todd is currently age 30 and earns \$50,000 per year. He would like to accumulate a fund for retirement by contributing to an account earning 6% annual effective. He will deposit X% of his annual salary at the beginning of each year for 35 years, with the first payment to be made today. Todd expects to receive 4% annual raises at the end of each year. If Todd would like to accumulate 700,000 at the end of 35 years, what is X? Round to the nearest 5 basis points.

A 7.05% B 7.10% C 7.20% D 7.25% E 7.30%

A 10-year annual annuity starts with a payment of 100 at the end of the first year and increases by 10% each year thereafter. Find the present value of this annuity at the time immediately before the first payment is made if i= 10%

A 909 B 1100 C 900 D 1000 E 990

The present value of a 25-year annuity-immediate with a first payment of 2,500 and decreasing by 100 each year thereafter is X.

Assuming an annual effective interest rate of 10%, calculate X.

A 11,346 B 15,923 C 17,396 D 18,112 E 13,615

You are given a perpetuity, with annual payments as follows:

Payments of 1 at the end of the first year and every three years thereafter. Payments of 2 at the end of the second year and every three years thereafter. Payments of 3 at the end of the third year and every three years thereafter. The interest rate is 5% convertible semi-annually.

Calculate the present value of this perpetuity.

A 24

B 29 C 34

D 39

E 47