Annuity –

Value of an annuity -

Example 1

You deposit \$2000 into a savings plan at the end of each year for three years. The interest rate is 10% per year compounded annually. (Formula on page 469)

a. Find the value of the annuity after three years.	N =
	I% =
	PV =
	PMT =
	FV =
b. Find the interest	P/Y =
	C/Y =

Example 2

You deposit \$3000 into an IRA at the end of each year for the next 40 years. If you can count on an interest rate of 8% per year compounded annually. (Formula on page 470)

a. How much will you have from the IRA after 40 years?	N =
	I% =
	$\mathbf{PV} =$
	PMT =
	FV =
b. Find the interest.	P/Y =
	C/Y =

Example 3

At age 30, to save for retirement, you decide to deposit \$100 at the end of each month into an IRA that pays 9.5% compounded monthly. (Formula on page 471)

a. How much will you have from the IRA when you retire at age 65?	$\mathbf{N} =$
	I% =
	$\mathbf{PV} =$
b. Find the interest.	PMT =
0. Find the interest.	FV =
	P/Y =
	C/Y =

Ordinary annuities -

Annuity due -

Example 4

Parents of a baby girl are in a financial position to begin saving for her college education. They plan to have \$100,000 in a college fund in 18 years by making regular, end-of-month deposits in an annuity that pays 9% compounded monthly. (Formula on page 473)

a. How much should they deposit each month?	$\mathbf{N} =$
	I% =
	PV =
	PMT =
	FV =
	P/Y =
b. How much of the \$100,000 college fund comes from deposits and how much comes from interest?	C/Y =

Read Pages 474-476 (Investments, Stocks, Bonds, Reading Stock Tables). Take Notes

Investments

Stocks

Bonds

Reading Stock Tables

Example 5

Use the stock table for Coca Cola to solve parts (a) through (h)	Use the stock table for Coca Cola to solve p	parts (a) through (h).
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52- Week High	52- Week Low	Stock	SYM	Div	Yld %	PE	Vol 100s	Hi	Lo	Close	Net Chg
63.38	42.37	Coca Cola	CocaCl	.72	1.5	37	72032	49.94	48.33	49.50	+0.03

a. What were the high and low prices for the past 52 weeks?

- b. If you owned 3000 shares of Coca Cola stock last year, what dividend did you receive?
- c. What is the annual return for dividends alone? How does this compare to a bank account offering a 3.5% interest rate?
- d. How many shares of Coca Cola were traded yesterday?
- e. What were the high and low prices for Coca Cola shares yesterday?
- f. What was the price at which Coca Cola shares traded when the stock exchange closed yesterday?
- g. What does the value or symbol in the net change column mean?
- h. Compute Coca Cola's annual earnings per share using

Annual Earnings per share = $\frac{\text{Yesterday's closing price per share}}{\text{PE ratio}}$