

Financial Functions Practice #A1

<p>1. You are twenty-five years old and currently have no savings. You plan to retire at age 70 years. If you start to save \$2,000 per year at age 25, how much will have been saved at retirement? Assume you will earn a 6% return on your savings.</p>	<p>1.</p>
<p>2. Your client has been offered two options for the settlement of a dispute with his insurance company. You must help him to choose the option with the highest present value.</p> <p>Option One: \$30,000 per year for 10 years</p> <p>Option Two: \$450,000 paid in a lump sum in 12 years. Assume an annual rate of return of 6%.</p> <p>2A. Present Value of Option One 2B. Present Value of Option Two 2C. Which option should the client choose?</p>	<p>2A.</p> <p>2B.</p> <p>2C.</p>
<p>3. You qualify for a home loan of \$350,000 at an annual interest rate of 4.6% and a loan term of 30 years. What will be your monthly payment?</p>	<p>3.</p>
<p>4. You are currently thirty years old and have set a savings goal of \$1,000,000 for when you reach 75 years old. You presently have savings of \$7,000 and no debt. How much must be saved each year to attain your savings goal of \$1,000,000? Assume you can earn an annual return of 7% on your savings.</p>	<p>4.</p>
<p>5. Two hundred bonds with a face value of \$20,000 pay \$1,200 per year and mature in 14 years. How much should an investor pay for this investment if they desire a 5% annual return?</p>	<p>5.</p>
<p>6. Five hundred strip bonds with a face value of \$50,000 mature in 8 years. How much should an investor pay for this investment if they desire a 4.0% annual return?</p>	<p>6.</p>
<p>7. You and your spouse earn \$95,000 per year, and want to spend only 32% of your income on a mortgage payment. You qualify for a 30-year loan at an annual rate of 4.2%. Find how much you can borrow with these limitations.</p>	<p>7.</p>
<p>8. You are currently thirty years old and have set a savings goal of \$1,150,000 for when you reach 75 years old. You presently have no savings or debt. How much must be saved each year to attain your savings goal of \$1,150,000? Assume you can earn an annual return of 6% on your savings</p>	<p>8.</p>

9. You are thirty years old and currently have no savings. You have only one debt, a \$55,000 student loan. You plan to retire at age 70 years. If you start to save \$3,600 per year starting at age 30, how much will have been saved at retirement? Assume you will earn a 7% return on your savings.

9.

10. - 11. An investment is projected to earn the following net operating incomes.

10.

Year	Net Operating Income
1	\$80,000
2	\$85,000
3	\$93,000
4	\$94,000

At the end of the four-year holding period, the investment is sold for net proceeds of \$820,000.

11.

10. Find the net present value of this investment if you want to earn a 7% rate of return.

11. What is the rate of return if you pay \$900,000 for this investment?
(Report to nearest tenth %)

12. Provide an income statement estimating Year 3 Net Operating Income for this property.

- 10-unit apartment building with all two-bedroom units.
- Each unit will rent for \$1,400 per month in year one.
- Rents will increase 5% each year.
- Estimate vacancy and collection loss at 7% of gross income.
- Annual expenses in year one will be \$40,000, and are projected to increase at 5% annually.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____