PRACTICE PROBLEMS

- 1. In a housing project the following sequence of events occurs.
 - At the start of the project (time zero), land is bought at \$1,000,000
 - Two months later, \$100,000 is paid to the architect for preparing the design
 - In month 4, construction is started and the cost of construction (labor and material) is \$150,000 per month
 - Every month, one house is built (a total of 12 houses); the first one is ready for sale in month 6
 - During every month starting from month 8, one house is sold for a price of \$150,000 each
 - After all of the houses are built and before all are sold, the **cost of maintaining the site** is \$10,000 per month

Draw the cash flow diagram and find the equivalence at the beginning period (zero period)

- 2-Mr. Shop purchases a pizza shop for \$120,000. Its operation will result in a net income of \$15,000/Yr for the first year, increasing by \$2,000 each year after year 1. At the end of the fifth year, the shop is sold for \$155,000. Draw the cash flow diagram for this project. find the equivalence at the end of tenth year!
- 3. Mr. X deposited \$1,500 in a savings account at the local bank and went on assignment overseas. After two years, he returned and noticed he had \$1,800 in his account. What annual effective rates of interest had the bank given him if they compounded the interest quarterly? What if they compounded annually?
- 4. What is **the yearly depreciation** and the book value for a truck with an **initial cost of \$150,000**, an assumed life of five years, and an **expected resale value of \$50,000**?