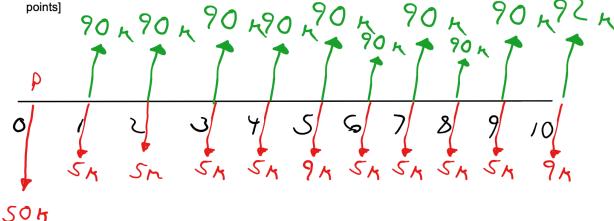
E355 Engineering Economics Spring 2022 Classroom Assignment #1

"I pledge my honor that I have abided by the Stevens Honor System"

By: Alexander Gaskins, Daniel Goldberg, and Samuel Gavrilov

1) Stevens Restaurant will purchase a new multi-burner professional stove for \$50,000 dollars. The annual O&M costs will be \$5,000 over the useful life of 10 years, after which it will be sold for \$2,000. Periodic overhauls will be required every 5 years, which are estimated to cost \$4,000 each. The revenue generated from this enterprise will be \$90,000 per year. Draw the cash flow diagram. [3



Net Gain in \$ = \$794,000

2) Are APY and APR the same thing? [1 point]

APR - Interest charged APY - Interest earned

3) Is APR or APY better for you if you are investing money? Why?

APY, because it accumulates upon what you invest over time.

APR would be interest compiled over time upon a payment or something that contributes to a negative monetary gain, such as a yearly loss due to interest charged on a mortgage payment.