

**EXAMPLE 1-2****Application of the Engineering Economic Analysis Procedure**

A friend of yours bought a small apartment building for \$100,000 in a college town. She spent \$10,000 of her own money for the building and obtained a mortgage from a local bank for the remaining \$90,000. The *annual* mortgage payment to the bank is \$10,500. Your friend also expects that annual maintenance on the building and grounds will be \$15,000. There are four apartments (two bedrooms each) in the building that can each be rented for \$360 per month.

Refer to the seven-step procedure in Table 1-1 (left-hand side) to answer these questions:

- Does your friend have a problem? If so, what is it?
- What are her alternatives? (Identify at least three.)
- Estimate the economic consequences and other required data for the alternatives in Part (b).
- Select a criterion for discriminating among alternatives, and use it to advise your friend on which course of action to pursue.
- Attempt to analyze and compare the alternatives in view of at least one criterion in addition to cost.
- What should your friend do based on the information you and she have generated?

**Solution**

- A quick set of calculations shows that your friend does indeed have a problem. A lot more money is being spent by your friend each year ( $\$10,500 + \$15,000 = \$25,500$ ) than is being received ( $4 \times \$360 \times 12 = \$17,280$ ). The problem could be that the monthly rent is too low. She's losing \$8,220 per year. (Now, that's a problem!)
- Option (1). Raise the rent. (Will the market bear an increase?)  
Option (2). Lower maintenance expenses (but not so far as to cause safety problems).  
Option (3). Sell the apartment building. (What about a loss?)  
Option (4). Abandon the building (bad for your friend's reputation).
- Option (1). Raise total monthly rent to  $\$1,440 + \$R$  for the four apartments to cover monthly expenses of \$2,125. Note that the minimum increase in rent would be  $(\$2,125 - \$1,440)/4 = \$171.25$  per apartment per month (almost a 50% increase!).  
Option (2). Lower monthly expenses to  $\$2,125 - \$C$  so that these expenses are covered by the monthly revenue of \$1,440 per month. This would have to be accomplished primarily by lowering the maintenance cost. (There's not much to be done about the annual mortgage cost unless a favorable refinancing opportunity presents itself.) Monthly maintenance expenses would have to be reduced to  $(\$1,440 - \$10,500/12) = \$565$ . This represents more than a 50% decrease in maintenance expenses.

# Engineering Economy 15 Edition Sullivan

**Barney L. Capehart, Wayne C.  
Turner, William J. Kennedy**



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