



3) Basic steps for analyzing these alternatives:

a) Define the specific alternatives to be considered.

b) Estimate the cash flows from each alternative.

	<b>Hold</b>	<b>Sell</b>	<b>Refinance</b>	<b>Renovate</b>
Initial cash flows				
Operating cash flows				
Terminal cash flows				

- c) Calculate the differential cash flows between the two alternatives.
  
- d) Calculate the NPV of each alternative and the NPV/IRR of the differential cash flows.
  
- e) Interpret and make a decision using the NPV/IRR decision rules.

4) Disposition Analysis Example (available on class website)

- a) If Ronald chooses to sell the property today, what will his return on this property have been over his holding period? (See the *Sale Today* tab on the Disposition Analysis spreadsheet.)

NOTE: This is an *ex post*, or after the fact, measure of the investment return. This is NOT the right way to determine whether the sale is a good decision, but it is sometimes interesting and useful to verify what the ex post return on the investment was.

- Based on the historical information provided in the problem, Ronald's ex post cash flows from this property if sold today would be:

<u>Year</u>	<u>Cash Flow</u>
0	(470,250)
1	47,027
2	47,044
3	59,483
4	58,881
5	57,695 + 747,970 = 805,665

- b) If Ronald chooses to hold the property for five more years, what will be the *ex post* return from this investment over the entire ten-year holding period? (See the *Historical Analysis* tab on the Disposition Analysis spreadsheet.)

NOTE: This, too, is a bad way to analyze whether Ronald should sell the property today.

- c) The right way to analyze the sell/hold decision is to conduct a *prospective* analysis comparing the decision to sell with the alternative of holding the property for five more years. (See the *Prospective Analysis* tab on the Disposition Analysis spreadsheet).

The final cash flows from each of the alternatives are as follows:

<u>Year</u>	<u>Keep</u>	<u>Sell</u>	<u>Difference</u>
5	0	747,970	(747,970)
6	60,112	0	60,112
7	63,341	0	63,341
8	66,634	0	66,634
9	69,998	0	69,998
10	72,867 + 1,140,495	0	1,213,362

- The NPV of the differential cash flows is \_\_\_\_\_.
  
- The IRR of the differential cash flows is \_\_\_\_\_.

  - These cash flows “look like” a(n) \_\_\_\_\_.

d) One final way to look at this problem is to ask whether it is worth continuing to hold the property another year. (See the *Marginal Analysis* tab on the disposition analysis spreadsheet.)