

MSCI 261 Assignment 1

Question 1

Negative Growth

Note: All results are in the thousands						
Givens	Value					
Interest Rate	15%					
Initial Investment	40,000					
Period	5 years					
Variable Expense	\$12.00					
Fixed Costs	\$3,500					
Growth	-0.09					
Without Additional Investment		Period	Selling Price	Units Sold	Total	
Present Value Fixed Expenses	\$11,732.70	1	\$29.00	1,000	\$29,000.00	
Present Value Variable Expenses	\$40,226.40	2	\$26.39	1,000	\$26,390.00	
Present Value Total Expenses	\$51,959.10	3	\$24.01	1,000	\$24,014.90	
Present Worth Income	\$83,344.28	4	\$21.85	1,000	\$21,853.56	
Net Profit	-\$8,614.82	5	\$19.89	1,000	\$19,886.74	
With Additional Investment		Period	Selling Price	Units Sold	Total	
Present Value Fixed Expenses	\$11,732.70	1	\$29.00	1,000	\$29,000.00	
Present Value Variable Expenses	\$75,975.69	2	\$26.39	2,200	\$58,058.00	
Present Value Total Expenses	\$87,708.39	3	\$24.01	2,200	\$52,832.78	
Present Worth Income	\$153,096.54	4	\$21.85	2,200	\$48,077.83	
Present Worth Additional Investment	\$13,043.48	5	\$19.89	2,200	\$43,750.83	
Net Profit	\$12,344.67					
The proposed investment is acceptable because the present worth is greater with the additional investment. Without the additional investment, there is a present worth of \$83,344.28, whereas with the additional investment, there is a present worth of \$153,096.54.						

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Steady Price

Note: All results are in the thousands						
Givens	Value					
Interest Rate	15%					
Initial Investment	40,000					
Period	5 years					
Variable Expense	\$12.00					
Fixed Costs	\$3,500					
Growth	0					
Without Additional Investment		Period	Selling Price	Units Sold	Total	
Present Value Fixed Expenses	\$11,732.70	1	\$29.00	1,000	\$29,000.00	
Present Value Variable Expenses	\$40,226.40	2	\$29.00	1,000	\$29,000.00	
Present Value Total Expenses	\$51,959.10	3	\$29.00	1,000	\$29,000.00	
Present Worth Income	\$97,212.50	4	\$29.00	1,000	\$29,000.00	
Net Profit	\$5,253.40	5	\$29.00	1,000	\$29,000.00	
With Additional Investment		Period	Selling Price	Units Sold	Total	
Present Value Fixed Expenses	\$11,732.70	1	\$29.00	1,000	\$29,000.00	
Present Value Variable Expenses	\$75,975.69	2	\$29.00	2,200	\$63,800.00	
Present Value Total Expenses	\$87,708.39	3	\$29.00	2,200	\$63,800.00	
Present Worth Income	\$183,606.63	4	\$29.00	2,200	\$63,800.00	
Present Worth Additional Investment	\$13,043.48	5	\$29.00	2,200	\$63,800.00	
Net Profit	\$42,854.75					
The proposed investment is acceptable because the present worth is greater with the additional investment. Without the additional investment, there is a present worth of \$97,212.50, whereas with the additional investment, there is a present worth of \$183,606.63.						

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Positive Growth

Note: All results are in the thousands						
Givens	Value					
Interest Rate	15%					
Initial Investment	40,000					
Period	5 years					
Variable Expense	\$12.00					
Fixed Costs	\$3,500					
Growth	0.09					
Without Additional Investment		Period	Selling Price	Units Sold	Total	
Present Value Fixed Expenses	\$11,732.70	1	\$29.00	1,000	\$29,000.00	
Present Value Variable Expenses	\$40,226.40	2	\$31.61	1,000	\$31,610.00	
Present Value Total Expenses	\$51,959.10	3	\$34.45	1,000	\$34,454.90	
Present Worth Income	\$113,598.78	4	\$37.56	1,000	\$37,555.84	
Net Profit	\$21,639.68	5	\$40.94	1,000	\$40,935.87	
With Additional Investment		Period	Selling Price	Units Sold	Total	
Present Value Fixed Expenses	\$11,732.70	1	\$29.00	1,000	\$29,000.00	
Present Value Variable Expenses	\$75,975.69	2	\$31.61	2,200	\$69,542.00	
Present Value Total Expenses	\$87,708.39	3	\$34.45	2,200	\$75,800.78	
Present Worth Income	\$219,656.45	4	\$37.56	2,200	\$82,622.85	
Present Worth Additional Investment	\$13,043.48	5	\$40.94	2,200	\$90,058.91	
Net Profit	\$78,904.58					
The proposed investment is acceptable because the present worth is greater with the additional investment. Without the additional investment, there is a present worth of \$113,598.78, whereas with the additional investment, there is a present worth of \$219,656.45.						