roblem 6.1								
igure 1: Known V	alues							
Project	Interest Rate (pct)	Initial Investment (\$)	Profit, Year 1 (\$/yr)	Profit, Year 2 (\$/yr)	Profit, Year 3 (\$/yr)	Profit, Year 4 (\$/yr)	Profit, Year 5 (\$/yr)	
А	10%	\$500,000.00	\$150,000.00	\$200,000.00	\$250,000.00	\$150,000.00	\$100,000.00	
В	10%	\$300,000.00	\$50,000.00	\$150,000.00	\$200,000.00	\$300,000.00	\$200,000.00	
Figure 2: Net Prese	ent Value							
Project	Present Investment (\$)	Value (\$, Year 1)	Value (\$, Year 2)	Value (\$, Year 3)	Value (\$, Year 4)	Value (\$, Year 5)	Cost Recovery (\$)	NPV (\$)
A	-\$500,000.00	\$136,363.64	\$165,289.26	\$187,828.70	\$102,452.02	\$62,092.13	\$0.00	\$154,025.74
В	-\$300,000.00	\$45,454.55	\$123,966.94	\$150,262.96	\$204,904.04	\$124,184.26	\$0.00	\$348,772.75
Notes:								
Net present value w	as calculated using equation	on 6.5 provided in the text	book.					
•	is computed by multiplying	•						
	was calculated using equat							
•	vas assumed that the salva	•		both projects.				
			, .,	r				
Figure 3: Payback	Period							
Project	Initial Investment (\$)	Average Cash Flow (\$/yr)	PB (years)					
Α	\$500,000.00	\$170,000.00	2.941					
В	\$300,000.00	\$180,000.00	1.667					
Notes:								
Payback period was	calculated using equation	6.9 provided in the textbo	ook.					
, ,								
Figure 4: Internal R	Rate of Return							
Project	Present Investment (\$)	Profit, Year 1 (\$/yr)	Profit, Year 2 (\$/yr)	Profit, Year 3 (\$/yr)	Profit, Year 4 (\$/yr)	Profit, Year 5 (\$/yr)	IRR (pct)	
A	-\$500,000.00	\$150,000.00	\$200,000.00	\$250,000.00	\$150,000.00	\$100,000.00	22%	
В	-\$300,000.00	\$50,000.00	\$150,000.00	\$200,000.00	\$300,000.00	\$200,000.00	40%	
Notes:								
nternal Rate of Retu	urn calculated using equation	on 6.7 provided in the tex	tbook and was comput	ted using the `IRR` func	tion in google sheets an	d rounded to a whole n	umber.	
Present Investment	is computed by multiplying	the initial investment by	· '-1'.					
Figure 5: Profitabil	ity Index							
Project	Value, Year 1 (\$/yr)	Value, Year 2 (\$/yr)	Value, Year 3 (\$/yr)	Value, Year 4 (\$/yr)	Value, Year 5 (\$/yr)	PI (unitless)	Prefered Project	
Α	\$122,979.12	\$134,434.34	\$137,771.80	\$67,772.22	\$37,042.52	1.00		
В	\$40,993.04	\$100,825.75	\$110,217.44	\$135,544.44	\$74,085.05	1.54	В	
			· · · · · · · · · · · · · · · · · · ·					
Notes:								

Problem 6.7								
Known Values								
Make	Cost	MPG (miles/gal)	Maintenance (pct)	Fuel (\$/gal)	Term (yrs)	Use (miles/yr)	Resale (pct)	Interest (pct)
Toyota	\$28,000.00	50	0.5%	\$2.00	5	10,000	40%	6%
GM	\$24,000.00	25	0.5%	\$2.00	5	10,000	30%	6%
Annual Costs								
Make	Fuel (\$/yr)	Maintenance (\$/yr)	Total (\$/yr)					
Toyota	\$400.00	\$140.00	\$540.00					
GM	\$800.00	\$120.00	\$920.00					
Salvage								
Make	Total Cost (\$/yr)							
Toyota	\$11,200.00							
GM	\$7,200.00							
Annual Costs								
Make	Investment (\$, P)	Useful Life (yrs, N)	Salvage Value (\$, L)	Interest Rate (pct, i)	Annual Expense (\$/yr, AE)	Annual Cost (\$/yr, AC)		
Toyota	\$28,000.00	5	\$11,200.00	6%	\$540.00	\$2,973.24		
GM	\$24,000.00	5	\$7,200.00	6%	\$920.00	\$3,113.24		
Notes:								
Annual cost cald	culated using Formula 6.2	in the textbook.						