

Problem Set 5.iv

3%

1.1	Period	Repayment	Interest	Loan redc	Loan out	Repaid loan
	0				15,000.00 €	- €
	1	5,302.96 €	450.00 €	4,852.96 €	10,147.04 €	4,852.96 €
	2	5,302.96 €	304.41 €	4,998.54 €	5,148.50 €	9,851.50 €
	3	5,302.96 €	154.46 €	5,148.50 €	- €	15,000.00 €
1.2	Period	Repayment	Interest	Loan redc	Loan out	Repaid loan
	0				15,000.00 €	- €
	1	450.00 €	450.00 €	- €	15,000.00 €	- €
	2	450.00 €	450.00 €	- €	15,000.00 €	- €
	3	15,450.00 €	450.00 €	15,000.00 €	- €	15,000.00 €
2.1	0.50%	120	90.07345333	55,510.25 €		
	3.00%	20	14.87747486	336,078.54 €		
2.2	0.50%	96	76.09521825	4,224,064.66 €		
	3.00%	16	12.56110203	4,221,516.80 €		
3.1	72,000.00 €	0.44%	180	124.40	578.79 €	2009
		0.44%	168	118.79	68,757.20 €	
		0.38%	168	124.47	552.38 €	2010
3.2		0.38%	156	117.94	65,148.92 €	
		0.50%	156	108.14	602.45 €	2011 (new bank)
4.1	260,000.00 €	28,600.00	288,600.00			
	0.50%	360	166.7916144			
	1,730.30 €					
4.2	0.50%	180	118.5035147			
	205,046.97 €					
4.3	3,600.00 €	1,620.00 €				
	270,202.42 €					
	0.109259259					
	443.9124348 months		37 years			
5.1	0.33%	72	63.91743678			
	547.58 €					

	0.33%	48	44.28883387
	24,251.74 €	14,251.74	
	321.79 €		
5.2	0.91		
	27.27090618 months		
6.1	0.003541667	60	53.96783443
	12,000.00 €	222.35 €	
6.2	0.003541667	48	44.07014546
	9,799.20		
	0.50%	48	42.58031778
	230.13 €		
7.1	0.247%	72	65.89536357
	3,642.14 €		
7.2	60,000.00 €		
	0.124%	48	46.56974769
	1,286.79 €		46.62756346
7.3	2,731.60 €		
7.4	0.8781		
	52.76794577 months	4 yr 10 months	
8	10,000.00 €	736.85 €	0.4167%
	0.943452987		
	13.99918274 months	1 year & 2 months	
9	10,000.00 €	421.50 €	0.2500%
	0.25%	360	236.37
	99,631.77 €		
10	10,000.00 €	2	5%
	11,025.00 €		
	9,910.00 €	11,045.00 €	5.571%
11 Interest rate			
	5%		Compare PV
Cash		cash	30,000.00 €
	5000	5.00%	7 5.79 30,378.46 €

	15000	14285.71429	20000	16454.0495	30,739.76 €
	4000	5.00%	10	7.72	30,886.94 €
12	-	15,000.00 €			
		8,000.00 €			
		8,000.00 €			
	TIR (IRR) FUNCTION	4.413%			
	Effective APR	9.020%			
13					
t	Loan outstanding	a	A	l	r
0	15000				5%
1	10000	5750	5000	750	
2	5000	5500	5000	500	
3	0	5250	5000	250	
14.1	200000				
	160000	0.0917%	300	262.1805725	
	610.27 €				
	1,189.73 €				
14.2		0.0917%	228	205.6659089	
	125,511.00 €	119,511.00 €	581.09 €		
14.3	0.820485374				
	215.9453083 months		18 years		