- 1. For each financial situation choose the scenario that would be better for the investor/borrower. [3]
 - i) Tavleen has \$5000 to invest. Should they choose:
 - a) 5% simple interest?

		_
- 1		
1	b)	,
1	D)	/

12% simple interest?

ii) Spencer is borrowing \$20000 to buy a new car. Should they choose:

(a)

4.5% compounded monthly?

7% compounded monthly?

3

- iii) Ty has \$1000 to invest. Should they choose:
 - a) simple interest?

	/	-
- /		b)
- (U

5% compounded monthly?

2. The cost of renting a jet ski is \$50 plus \$30/hour.

a) The initial value is

[3]

b) The constant of variation is \$30/hc

300-(1)

- c) Write an equation to model the rental cost, C, of renting for n hours \(\sum_{n} \)
- 3. Determine an equation to model the linear growth shown in each of the following. [6]

a),

n	C	
0	60) ~"
1	49	
2	38	7-11
3	27)-11
4	16	5-11

0	+	7-1
X	Y) -3
1	12	1+5
2	17 s	1
3	22	2) +S
4	27	1742
5	32	2+5
		_

initial value:

constant of variation:

equation: C = -11 n +60

constant of variation:

equation: y = 5x + 7

Groovy Rentals charges a flat fee of \$300 plus \$55/day to rent a car. ABC Rentals charges \$80/day to rent a car.

ABC

Create a table of values and graph the total cost, C, of renting a car for n days. [8] a)

Cross C=55n+300

5

10

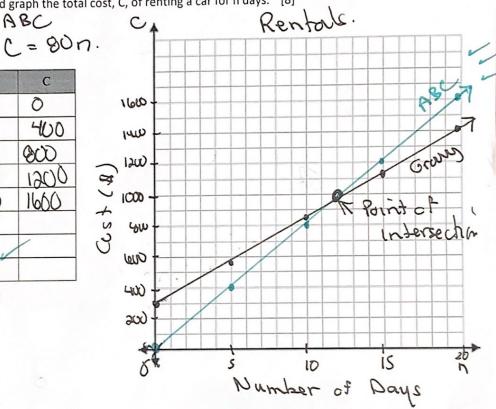
15

30)

300 575

850

	,	-
	n	
	0	0
	5	4
	5 10 15	(2)
	15	12
	20	12
,		1
	-	



What is the solution to the system? What does the solution represent in the context of the question? b) (12,960) At 12 days both rentals will be \$960

When should you rent from Groovy Rentals? c)

You should vent from Growy rentals if renting over , 2 days.