V Lir	mite	d is a manufacturing com	pany which uses ma	arginal costing.	
REC	QUIR	RED			
(a)	Defi	ine:			
	mar	rginal cost			
	con	tribution			
	brea	ak-even point.			
				[1	
		nal information			
			Per unit Selling price Direct materials Direct labour	\$ 52 16 18	
		osts per month are \$36 900 spacity.	D. Maximum output p	per month is 2500 units. The factory operate	
REC	QUIR	RED			
(b)	Calculate the break-even point:				
	(i)	in units			
				[2	
	(ii)				
	(ii)				

## **Additional information**

The directors plan to increase factory capacity to meet increased demand. The following details are available.

- 1 Factory capacity will be increased by 15%.
- 2 Additional machinery will be required at a cost of \$72000.
- 3 Machinery is depreciated at 20% per annum on cost.
- 4 The directors will apply for a bank loan of \$60 000 at 8% per annum interest to finance the cost of the additional machinery.
- 5 Direct materials will cost less per unit as a result of buying in greater bulk. Suppliers currently give a 20% trade discount but will give a 25% trade discount in future.
- 6 Direct labour costs and selling price will remain unchanged.

## **REQUIRED**

(c)	Calculate the increase in the <b>monthly</b> margin of safety <b>in units</b> , assuming all production is sold.
	[7]

## **Additional information**

V Limited produces a different single type of product at **another** factory.

The following details are available:

Selling price per unit \$26

Contribution per unit \$8

Fixed costs per month \$52 000

Factory capacity per month 18 000 units

Currently the factory is operating at 85% capacity. All products are sold to regular customers.

The directors are considering accepting an order from a new customer. The following details are available:

- 1 The order is for 4200 units per month.
- 2 The customer is considering making a regular order for this quantity.
- 3 The customer wishes the product to be packaged differently. This will add \$0.50 per unit to variable costs and will require investment in new machinery, adding \$1000 per month to fixed costs.
- 4 The customer has offered to pay \$24 per unit.

The directors are considering two options.

Option A: Reject the order from the new customer.

Option B: Accept the order from the new customer, operate the factory at full capacity and reduce the number of units supplied to regular customers.

## **REQUIRED**

1)	Cai	culate the profit per month to be made under each option.
	(i)	Option A
		[1]
	(ii)	Option B
		[5]
		1.1

(e)	Advise the directors which option they should choose. Justify your answer by considering <b>both</b> financial and non-financial factors.
	F-7:
	[7]

(f)	Explain <b>two</b> advantages to a business of using absorption costing.	
	1	
	2	
		[4]
		L <sup>-+</sup> .