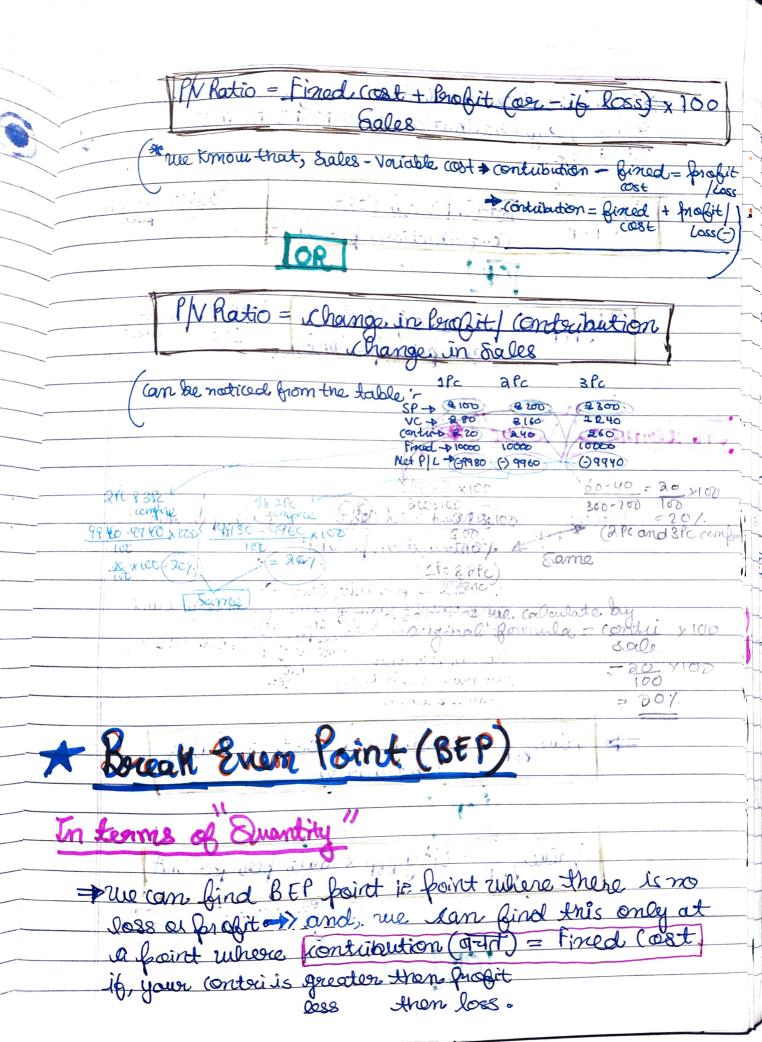
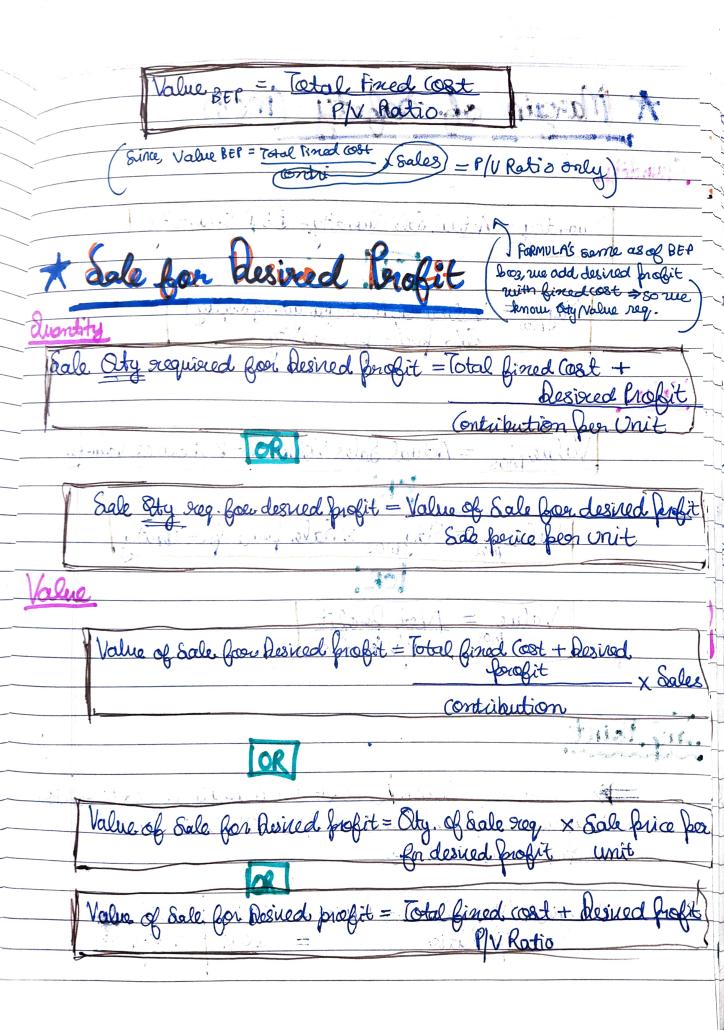


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>So in shoot me need to course fixed cost (here 21000) by contribution (₹20) कर कर के भी 311 रहा है ८०, 29. 10,000 = Soo unit Total Fined Cost Contribution ber Uni Value of BE 100 terme o Value BEP Total fined cost x Sale for unit Contoubution per whit no read of feer unit, just get anect and boos son soo sato = 5:1 20, we can bick any control and you will use can bick any we can fick any just make sure it is of same bracket. Value, BER Gtal fined Gost Contribution Oty BEP X Sale &



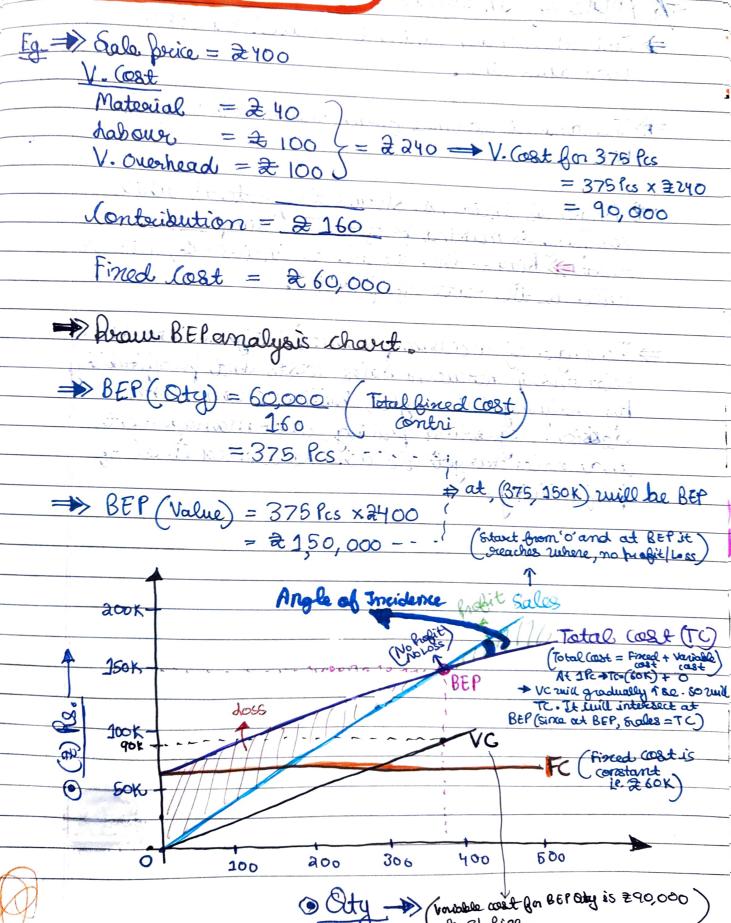
* Margin of Safety Quantity = Actual Sale Quantity - BEP Quantity Value of MOS (margin of safety) Salo price feer unity (alue Actual Sales Volume - BEP sales Volume OR × Sale foice for unity CR alue = Net Brokit P/V Ratio mb. Point is given. So, in order to find PV ratio just Subject by 100% &

Marginal / Voriable Cost Ratio =

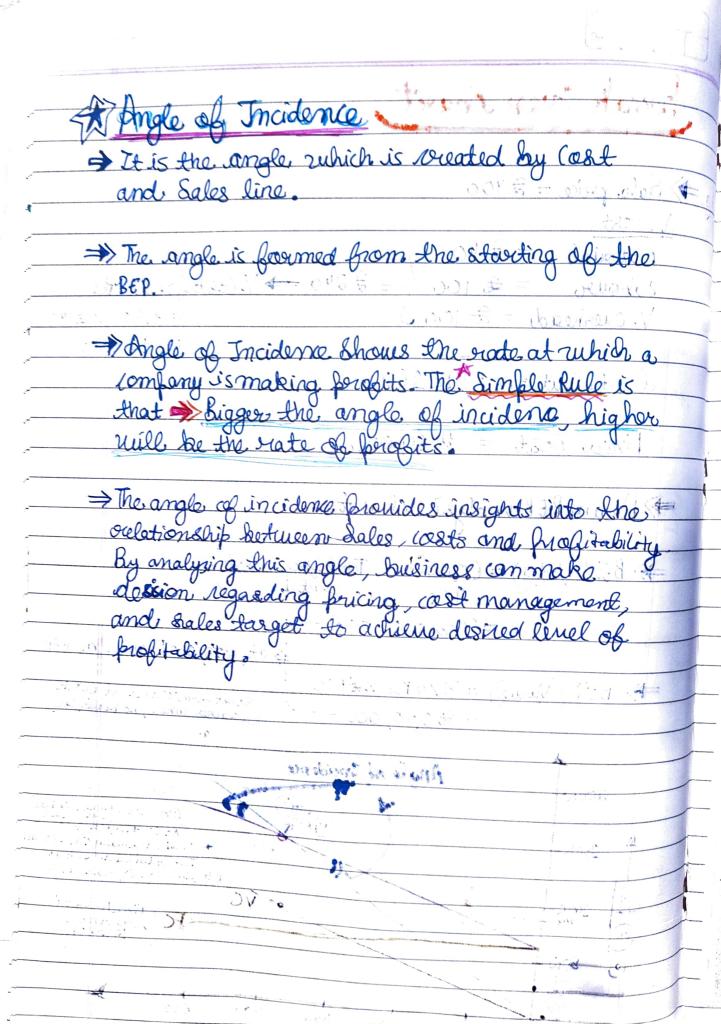
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PN Ratio

Break Even chart



so stiline,



Cost-bruak- even point

It is a situation under which the cost of operating two attrinative plants are equal. Though both the plants may have the same total costs, their total fixed costs and variable costs per unit may be different. In such a point at which the total costs (fixed and variable) of operating both the plants are the same. Such a point may be called cost break even point.

Cost break even - Difference in fixed Cost point Difference in Variable cost per unit

And Marine

Plant A Plant B Quee. 1,00,000 2,00,000 fixed Cost 30 Variable Cost Piu 40

Calculate Cost break even point

Cost break even point = 100000 = 10,000 units

Composite Break-even Point

It is a single break ever point in the cas

Composite PVR = Total Contribution x100 total Sales

Duy From the following data, calculate

- 1) Composite PVR
- 11) Composite contribution per unit of mix
- 111) Composite BEP using PVR,
- of Fixed Cost is ₹50,000

_			The state of the s	MATA MATERIAL MATERIA
	Products	Units	Selling price pu	Variable Cost
	Α	000را	5	μρ.υ
	В	2000	10	8 1 5/1
	С	3000	15	12

Ans-Computation of Composite PVRatio

A: 1000 x 5 = 5000

B: 2000 × 10 = 20,000

C: 3000 x15 = 45,000

70,000

Calculation of Composite BEP

= Total fixed Cost

Composite PVR

= 50,000

20%

= \$\mathcal{E}\$ 2,50,000

Cash Bruak-even Point

While computing the break even point if only cash fixed costs are considered, the break even point so computed is called cash break even point. The computation of cash break even point excludes depreciation and other non-cash fixed expenses. Cash break-even point thus will give such a level of output or sales at which the sales revenue will be equal to cash outflow.

Cash break even point = <u>Cash fixed Cost</u> Contribution p.v

Sur from the following data, Calculate Cash BEP Selling price p.u = ₹10 Variable Cost p.u = ₹6 FC = ₹11000 (including ₹3000 as depreciation) Ans- Cash Break ever point = Cash fixed Cost Contribution p.u

= 8000 = 2000 units

$$= \frac{14000}{70000} \times 100$$
$$= 20\%$$

11) Calculation of Composite Contribution per unit pile nel o

Contribution = Salu-VC
$$A = 5-4 = 1$$

$$= 1 \times 1000 + 2 \times 2000 + 3 \times 3000$$

$$1000 + 2000 + 3000$$

$$\frac{14000}{6000} = £ 2.33$$

Aspect	Absorption Costing	Marginal Costing
Definition	A costing method that assigns all manufacturing costs, including both variable and fixed costs, to products.	A costing method that assigns only the variable manufacturing costs to products. Fixed costs are treated as period costs and are not assigned to products.
Cost classification	Both variable and fixed manufacturing costs are included in the product cost.	Only variable manufacturing costs are included in the product cost. Fixed costs are expensed as period costs.
Product cost	Includes direct materials, direct labor, variable manufacturing overhead, and fixed manufacturing overhead.	Includes direct materials, direct labor, and variable manufacturing overhead is not considered a product cost.
Profit calculation	Sales - (Cost of goods sold + Selling and administrative expenses) = Net profit	Sales - (Variable manufacturing costs + Variable selling and administrative expenses) = Contribution margin
Inventory valuation	Considers fixed manufacturing overhead as part of the inventory cost.	Only variable manufacturing costs are allocated to the inventory cost. Fixed manufacturing overhead is not included.
Decision- making	Useful for long-term decision-making as it incorporates all costs, including fixed costs.	Useful for short-term decision-making, such as determining the profitability of specific products or services.
Example	Suppose a company produces and sells widgets. In absorption costing, the product cost would include direct materials, direct labor, variable manufacturing overhead, and fixed manufacturing overhead. Thus, the cost per unit will be higher.	Using the same example, in marginal costing, only variable costs like direct materials, direct labor, and variable manufacturing overhead will be considered in the product cost. Fixed manufacturing overhead will be treated as a period cost and will not be included in the cost per unit. As a result, the cost per unit will be lower compared to absorption costing.

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It's important to note that both absorption costing and marginal costing their own advantages and limitations, and the choice between the two marginal costing and their own advantages and limitations, and the choice between the two marginal costing and the choice between the two marginal cost in the company.

Relevant Costs and Decision-Making

- 1. <u>Key Factor</u>: The key factor is a crucial element that significantly influence a decision or outcome. In decision-making, it is essential to identify the key factor, as it helps determine the most relevant costs and benefits associated with a particular choice. The key factor is often the limiting factor or constraint that affects the decision.

 <u>Example</u>: A manufacturing company has limited machine hours available. The key factor in determining the production quantity and profitability of different products would be the machine hours. The company would allocate its limited machine hours to the product that generates the
- 2. <u>Pricing:</u> Pricing decisions involve setting the optimal price for a product or general service. Relevant costs play a vital role in determining the appropriate pricing strategy. These costs include variable costs directly associated with pricing the product, as well as any additional costs incurred due to the pricing decision, such as changes in demand or production volume. pricing decision, such as changes in demand or production volume. <u>Example:</u> A restaurant wants to introduce a new dish on its menu. In determining the price, the restaurant considers the cost of ingredients, labor, and other variable costs associated with preparing the dish. Additionally, they assess market demand and competition to set a price that maximizes profitability.
- 3. Product Profitability: Analyzing product profitability involves assessing the costs and revenues associated with each product or service offered by a

highest profit per hour.

product, businesses can evaluate their profitability accurately.

Example: A retail store sells multiple products and wants to evaluate their profitability. They consider the costs of purchasing or producing each item, along with any additional costs related to storage, packaging, and marketing. By comparing these costs against the revenues generated by each product, the store can determine which items are the most profitable.

4. <u>Dropping a Product Line:</u> Dropping a product line refers to the decision to discontinue offering a particular product or service. This decision is often based on an analysis of the relevant costs and benefits associated with maintaining the product line. If the costs outweigh the benefits, dropping the product line may be the appropriate choice.

<u>Example:</u> A technology company manufactures smartphones and tablets. After analyzing sales figures and production costs, they realize that the tablet product line is consistently generating lower profits compared to smartphones. They may decide to drop the tablet product line to focus their resources and efforts on the more profitable smartphone business.

5. Make or Buy: Make or buy decisions involve determining whether a company should produce a component or product internally or purchase it from an external supplier. Relevant costs, such as production costs, purchase costs, and quality considerations, are crucial in making this decision.

Example: An automobile manufacturer needs a specific component for its vehicles. They compare the costs and quality of producing the component in-house versus purchasing it from a specialized supplier. If the in-house production costs are higher or the external supplier offers better quality, the company may decide to buy the component instead of making it internally.

6. Export Order: When a company receives an export order, it involves selling products or services to customers in foreign markets. Decision-

making related to export orders considers relevant costs associated exporting, such as transportation, tariffs, customs duties, packaging marketing expenses, along with potential revenues.

<u>Example</u>: A clothing manufacturer receives a significant export order a retailer in another country. They assess the costs involved in export the goods, including shipping costs, customs fees, and any necessary product modifications. After comparing these costs against the expect revenue from the order, the manufacturer decides whether accepting the export order is financially viable.

difficulties or operational challenges, a decision must be made regarding whether to shut down operations or continue operating. Relevant costs, such as fixed costs, variable costs, potential revenue, and potential losses, are crucial in evaluating the financial implications of both options.

Example: A struggling factory is operating at a loss due to declining demand for its products and high operating costs. To determine the best course of action, the company analyzes the fixed costs, variable costs, and potential revenue if operations continue. If the projected losses outweigh any potential gains, the company may decide to shut down operations rather than continue operating at a significant loss.

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tration 5.14. The following details have been furnished to you regarding two proposals which are for consideration before a firm.

- (a) Improvement in the quality of the product, which will result in an additional sale of 5,000 units at the existing price. However, this improvement in quality will result in increase in the variable cost by 10 paise per unit.
- (b) Reduction in the selling price of the product by 12 paise per unit. This will push up sales by 5,000 units.

In both cases the fixed expenses will increase by Rs. 1,000.

The present sales of the firm are 10,000 units at the rate of Rs. 2.10 per unit. The variable cost is Rs. 1.60 per unit and the total fixed costs are Rs. 3,000.

You are required to state whether it will be appropriate for the firm to select any of the new proposals or should it continue with the existing scheme.

Solution:

EVALUATION OF ALTERNATIVES

Particulars	Present Case	Proposed Case				
ξ		(a)	(b)			
Expected sales (units)	10,000	15,000	15,000			
Selling Price (Rs.)	2.10	2.10	1.98			
Variable Cost (Rs.)	1.60	1.70	1.60			
Contribution (Rs.)	0.50	0.40	0.38			
Total Contribution (Rs.)	5,000	6,000	5,700			
Fixed Expenses (Rs.)	3,000	4,000	4,000			
Profit (Fis.)	2,000	2,000	1.700			

The above analysis shows that it will be appropriate to continue with the status quo. However, if there is a possibility of increasing the selling price in future, proposal (a) may be considered.