It briven, the total cost function te = 1500 + 150 - 60 + 83 where to is the total cost and & is level of output. (1) Dotermine (a) Total variable cost function 6) Mariginal cost function (c) Average variable cost function (ii) Calculate total cost, Atc, Ave and Mc when the firm produces 50 units of output biven, TC = 1500 + 158-60 + 83 - 0 We know that, TC = Total fixed cost + Total variable cost In ear O, TFC = 1500 50, tre function = 158-68+83 (Am) (b) By differenting to function, we will get Mariginal cost function. .. Mc function = 15-128 + 382 (Am) (c) We know that AVC = TVC 50, Ave function = $\frac{158-68^{2}+8^{3}}{8}$ $= 15-68+8^{2}$ Am

biven, Dulput unit, 8 = 50 : Total cost, TC = 1500+150 -68+83 = 1500 + (15×50) - (6×50) + 503 = 112250 Averege Total Cost, Atc = Average Variable cost, AVC = TVC $= (16 \times 50) - (6 \times 50) + 50^{3}$ Mariginal Cost, MC = 15 - (12×50) + (3×50) Nayeem Mahmood / 3AM / C161026

and the cost structure. Fill in all the solum trows for column total cost, Ate, Me.

| P | 8 | Fixed Cost | Varuable Cost | TC (TK) | ATC (TK) | MC (TK) |
|----|----|------------|---------------|---------|----------|--------------------------------------|
| 20 | 1 | 45 114 | 200 | 245 | 245 | No change is unit of output. |
| 18 | 2 | 45TK | 280 | 325 | 162.5 | 50, NO MC (325-245)/(2-1) = 80 |
| 16 | 3 | 4514 | 375 | 420 | 140 | =95 (420-325)/(3-2) |
| 14 | 14 | 45TK | 400 | 445 | 111.25 | (445-420) 1 (4-3) = 25 |
| 12 | 5 | 45TK | 500 | 545 | 109 | (545-445)/(5-4) |

National Income

HA National Income (NI)

NE of a country can be defined as the total matrixet value of all goods and services produced in the country in a year.

samuelson defined, "NE is money measure of the overrall annual Blow of goods and services in an economy."

J.M. Keynes defined, "National income is the money value of all goods and services produced in a country during a year.

If x_1, x_2, \dots, x_n be the different kinds of final goods and services and produced in a country in a year and P_4 , P_2 , ..., P_n be their respective prices, then,

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THE Calculate GNP, NNP, NI, PI, Petisonal DI from the following data -11 JULY = 5677.5 Net factor payment from abroad = 17.5 Capital consumption allowance = 626.1 Indirect taxes = 475.7_ Social security contribution = 528.8 Grove. & business triansfers to person = 791.1 Dividends = 137 (18 Shiples) were in Part Is miles personal Tax & Non-Tax Payment = 618:7 GNP = GDP + Net factor payment from abroad = 5677.5 + 17.5 - 6695 NNP = GNP - Depreciation/ capital consumption Allowance - 5695 - 626.1 = 5068.9 NI = NNP - (Indirect Taxes + Subsidies) = 5088.9 - 475.2 = 4593.7 PI = NI + transfor Payments - Profit Taxes -Undistributed probit = 4993.7 + 771.1 - 528.8 - 137 = 4699 Nayeem Mahmood / 3AM / C161026

DI = PI - Personal Taxes = 4699 - 618.7 = 4080.3 由 GDP -> \$6000 6 Gross Investment -> \$800 Net Investment -> \$200 consumption -> \$ 4000 Grove. Purchase of Goods & Services - \$ 1100 Gravt Budget Deficit -> \$30 a) NDP = 7 NDP = GDP - Depreciation = LADR- (LAIROSS Investment - Net Investment) = \$6000 - (\$800 - \$200) = \$5400 6) Net Exports (Nx) = ? MDP = C+I+ 4 + Nx > Nx = GDP - C-I-4 = 46000 - 44000 - 4800 - 41100 = \$ 100

H c) Good Taxes Minus Transfer (TA-TR) = ? Given, Budget Deficit = -30 > 0+TR-TA = -30 7 TR-TA = -30- 67 7 Tq-TA = - 1130 : PA-TR = \$ 1130 d) DPI =7 DPI = Personal Income - Tax = Y + TR-TA =Y-(TA-TR) = 46000 - 9 1130 - 4 4870 Nayeem Mahmood / 3AM / C161026

It Assume that GOP is \$6000, Personal Disposable Income is \$5100 and Grout. Budget Deficit is \$200, consumption is \$2,800 and trade Deficit is \$ 100 a) How large is saving? we know that, Disposable Personal Income = consumption + bavings > DBI = C+5 > 5 = PDI-CORRELL - INTER HINTER HAD STONE = \$5100 - 43800 : 5 = \$1300 6) What is the size of Investment? we know that, Deficit Deficit Saving-Investment = Govt. Budget - Net Expont/Trade Delicit 3 9 1300 - S = \$ 200 - \$100 2 I = 1300-200 +100 : 1 = \$ 1200 / min - during - during his c) How large is Grovt- spending? We know that, CIPP = Consumptions + Investment + Govt. Spending/ Growt. Expenditure * Net Exports/ Trade Debicit \$6000 = \$3800 + \$ 1260 + 67 * \$160 3 6= \$6000 - \$ 3800 - \$ 1200 + \$ 100 = 9 1100 Nayeem Mahmood / 3AM / C161026

consumptions - 4900 田 Grovt. Expenditures - 1200 Exports - 1050 Imports - 950 Net forreign factor mome - 20 1) Calculate GIDP GDP = C + I + G + Export- Import = 4000 + 1300 + 1200 + 1050 -950 = 7500 Characterist to assistant of 2) Calculate GNP GNP = GDP + Net forceign factor in come 1500 + 20 101 - 125 had word - word - word against 3) Calculate Net Exponts 331, 000 1981 Net Exports = Exports - Imports = 1050-950 SUMMERS SAND STREET = 100 trail groburgs trail of tree y trained a resold forest trail a 4203 to fact show (strope) tall a south house 1337 1 10 1 1531) 1 3348 p 3 3123143 p Nayeem Mahmood / 3AM / C161026