ATE / / SU MO TU WE

NOTES

Sef A

$$P_{x} = 150 - 30x + 2(20)$$

$$-40x = -160$$

$$P_{x} = 190 - 3(40) = 70$$

KED = 1. Ain Qy

· I. Din Px

= 20

90-70

90+70

= 20

25

= 0.8 (Ans

b) X and Y are sweak substitutes

since XED is positive and less

than I (Ans

c)
$$P_x = 130 - 30x + 20y$$

$$= 170 - 30x$$

At equilibrium,

170-3Qx = 30+Qx

Qx = 35

Before income change, Qx =40

After 11 11 , Qx=35

YED = 1. Din Qx

1. Din @4

= 35. - 40 (40+35)

25

= -0,53

d) Product X is an inferior good. since YED is negative (Ansi)

SET B

 $P_x = 210 - Q_x - Q_y$ Demand $P_x = 45 + Q_x$ Supply

a) Qy= 30

XED= · l. Ain By

= 45 -30

(45+30) 2

15

 $=\frac{40}{15}=2.67$ (Ans.)

XED is positive and greater than I (Ansi)

DAIE / / OG MIC	NOTES
c) Px = 180-2Qx-Qy	
<u>(C.)</u>	
<u> </u>	
Before income change,	
Px = 48 210 - 20x-30	1
= 180-2Qx	
At equilibrium,	
180-20x= 45+Qx	
Qx = 45	. /
Afterincome change,	
P. = 180 - 20 0 0 0	•••••
$P_{x} = 180 - 2Q_{x} - 30$	
= 150 - 2Qx	
150-20x=45+Qx	· ·
$Q_{x} = 35$	
	••••••
YED = 1/ Din Qx = 35-45	
1. Din y (35+45)	
1. Diny (35+45)	
15	

DATE

_	-25	=	_	1.6	7
	15	•••••			

d) Product X is inferior good since YED is negative (Ansi)

Set C

a)
$$P_x = 210-2Q_x - Q_y$$
 Demond
 $P_x = 45 + Q_x$ Supply

Qy = 30

At equilibrium,

Qx = 45

After increase in price,

c) After income change,

Px = 180 - 20x - Qy

= 180 - 20x - 30

= 150 - 20 x

At equilibrium,

150-2Qx = 45+Qx

Qx = 35

YED = 1. Ain Qx = 35 - 45 x100

1. Din Y

35+45

-15

= 1.67 (Ans)

d) Product x is a normal good since

YED is positive (Ansi