Dylan Blak dorble mene Suppose we get the first unit of y tree BL 4/0 discount Congre on Sidget lie & highest possible IC

$$E_{X}$$
.  $V(F,C) = FC$ ,  $BC$ :  $200 = 10F + 20C$ 
 $MU_{F} = \frac{30}{3F} = C$ 
 $P = 40$ 
 $MU_{C} = \frac{10}{3F} = F$ 
 $P = 20$ 
 $P = 20$ 
 $P = 20$ 

$$MU_{c} = \frac{10}{10} = F$$
 $C = \frac{10}{20} \Rightarrow F = 2C$ 
 $F = \frac{20}{10} \Rightarrow F = 2C$ 

Ex 2: 
$$U(F,C) = FC^2$$
,  $200 = 10F + 20C$ 
 $MU_F = C^2$ 
 $MU_C = 2FC$ 
 $MU_C = 2FC$ 
 $MRS = \frac{1}{2} = C$ 
 $MRS = \frac{1}{2} = C = F$ 
 $MUX = \frac{1}{2} = \frac{1}{2} = C$ 
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BC Tee colo MRSC PI MRS>

$$U(X,Y) = 2X+Y, BL: 20 = 4x+3y$$

$$-MRS = 2$$

$$-Price rabb = 3$$

$$Constant MRS = 2$$

$$MRS > Py catall points,$$

$$So considered to the second to the$$

First order co-Down:

1 DL DU(2, 1) - 2 Px = 0

Costrure of this Exten 2

$$\frac{\partial L}{\partial y} = \frac{\partial U}{\partial x} - \lambda \gamma = 0$$

$$\frac{\partial L}{\partial x} = \gamma - \rho_x - \rho_y = 0$$

Layeng miliplicy: row of the maximum valve of the dirty frum as costans is reloxed I=40, 9x=2,5y=4 a) 40= 7x+4y

$$I = 40, 9x = 2, 5y = 4$$

a)  $40 = 2x + 4y$ 

b)  $-5\log e = \frac{9x}{7y} = \frac{1}{2}$ 

c)  $U(x, y) = 2xy$   $\Rightarrow HRS = \frac{y}{x}$ 

y = 2 => 2y =x

$$y=5, x=10$$