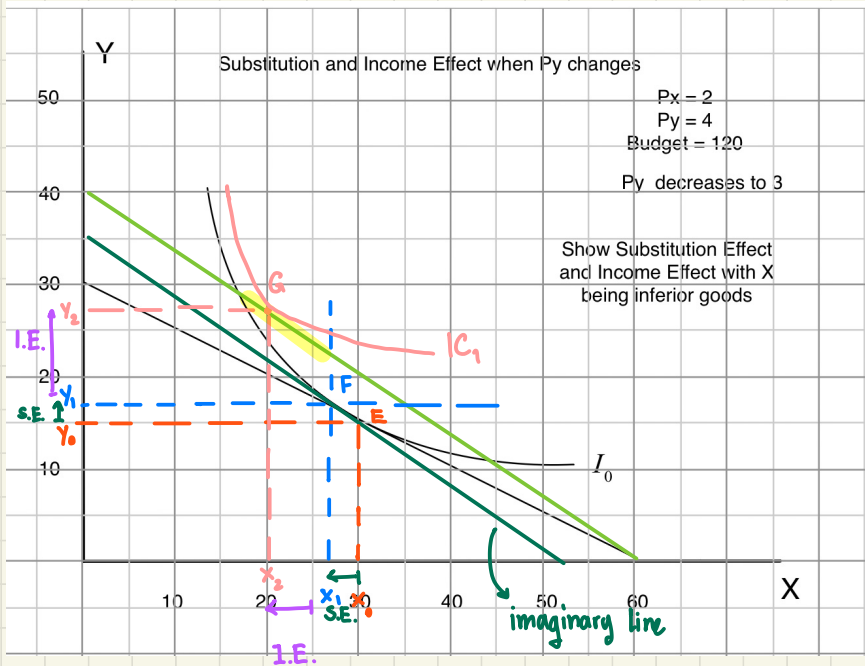


H.W. due 29 OCT 2020

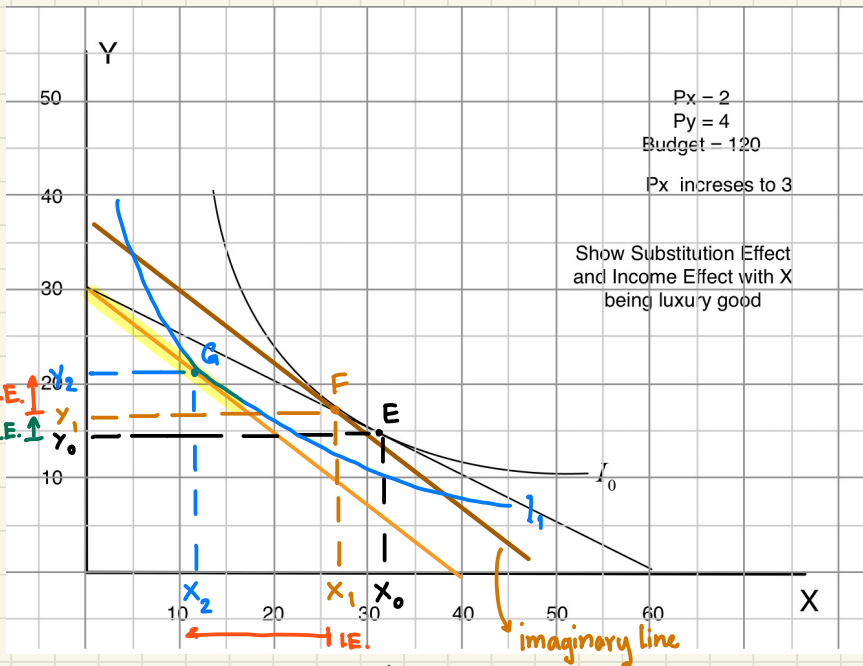


- $2X + 4Y = 120$
 when $X=0, Y=30$
 $Y=0, X=60$
- $2X + 3Y = 120$
 when $X=0, Y=40$
 $Y=0, X=60$

S.E. on $X = X_1 - X_0$
 $Y = Y_1 - Y_0$

I.E. on $X = X_2 - X_1 < 0 \Rightarrow$ inferior
 $Y = Y_2 - Y_1 > 0 \Rightarrow$ luxury

New Eq. G can be anywhere on yellow area so that X is inferior.



• $2X + 4Y = 120$

• $3X + 4Y = 120$

↳ new budget line

when $x=0, y=30$

$y=0, x=40$

S.E. on $X = x_1 - x_0$

$Y = y_1 - y_0$

I.E. on $X = x_2 - x_1 < 0 \Rightarrow X$ is luxury.

$Y = y_2 - y_1 > 0 \Rightarrow$ inferior

New Eq. G can be anywhere on yellow area so that X is luxury.