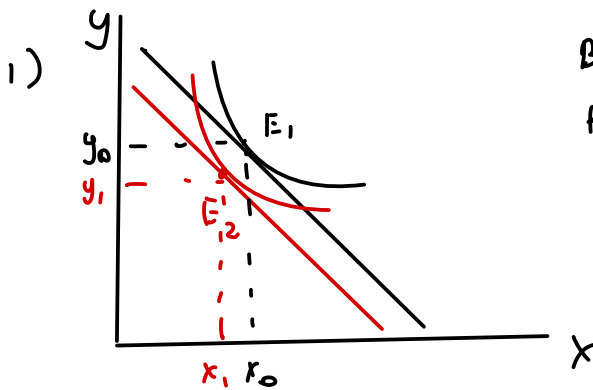


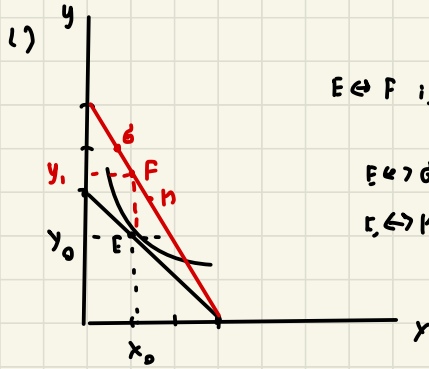
#1 If the price P_x and P_y increase 10% at the same time, with income Remaining unchanged, show that this is equivalent to a reduction in income.

#2 Demonstrate how PCC with varying price P_y , (P_x and Income are fixed) can give us the price elasticity of Y to be equal to, less than, or greater than 1 in absolute value

7. A college student has two options for meals: eating at the dining hall for \$6 per meal, or eating a Cup O' Soup for \$1.50 per meal. Her weekly food budget is \$60.
- Draw the budget constraint showing the trade-off between dining-hall meals and Cups O' Soup. Assuming that she spends equal amounts on both goods, draw an indifference curve showing the optimum choice. Label the optimum as point A.
 - Suppose the price of a Cup O' Soup now rises to \$2. Using your diagram from [part \(a\)](#), show the consequences of this change in price. Assume that our student now spends only 30 percent of her income on dining-hall meals. Label the new optimum as point B.
 - What happened to the quantity of Cups O' Soup consumed as a result of this price change? What does this result say about the income and substitution effects? Explain.
 - Use points A and B to draw a demand curve for Cup O' Soup. What is this type of good called?



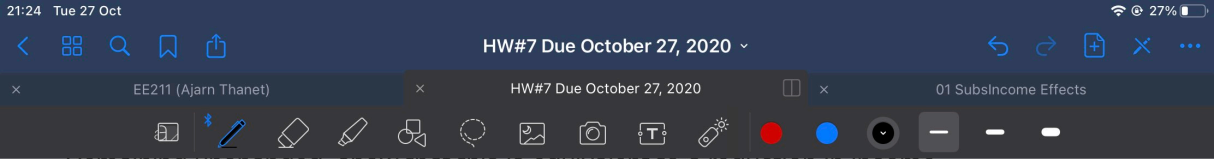
Budget Line will shift down
From E_1 to E_2



$E \leftrightarrow F$ is $|v_y| = 1$

$E \leftrightarrow G$ is elastic $|v_y| > 1$

$E \leftrightarrow H$ is inelastic $|v_y| < 1$



Remaining unchanged, show that this is equivalent to a reduction in income.

#2 Demonstrate how PCC with varying price P_y , (P_x and Income are fixed) can give us the price elasticity of Y to be equal to, less than, or greater than 1 in absolute value

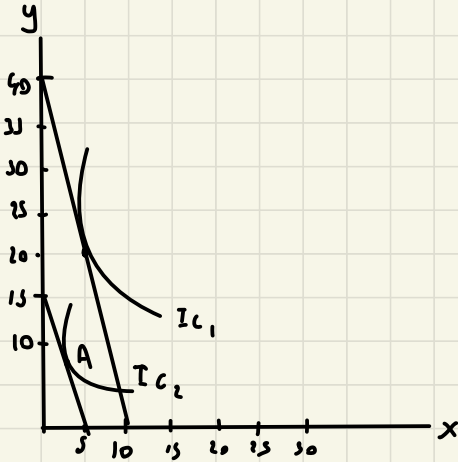
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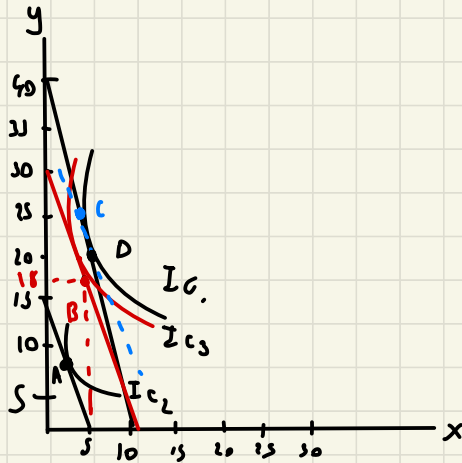
- a. Draw the budget constraint showing the trade-off between dining-hall meals and Cups O' Soup. Assuming that she spends equal amounts on both goods, draw an indifference curve showing the optimum choice. Label the optimum as point A.
- b. Suppose the price of a Cup O' Soup now rises to \$2. Using your diagram from [part \(a\)](#), show the consequences of this change in price. Assume that our student now spends only 30 percent of her income on dining-hall meals. Label the new optimum as point B.
- c. What happened to the quantity of Cups O' Soup consumed as a result of this price change? What does this result say about the income and substitution effects? Explain.
- d. Use points A and B to draw a demand curve for Cup O' Soup. What is this type of good called?

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a)



b)



$x = \text{dining hall}$
 $y = \text{cup o'soup}$

$$p_x = \$6$$

$$p_y = \$1.5$$

$$\text{Budget} = \$60$$

$$\text{Budget Line} =$$

$$6x + 1.5y = 60$$

$$b) \quad p_x = \$6$$

$$p_y = \$2$$

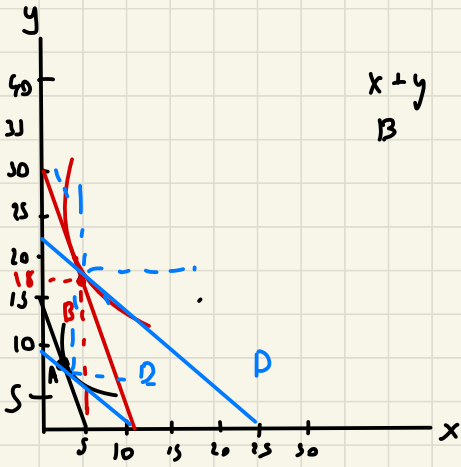
$$\text{Budget} = \$60$$

$$\text{Budget Line} =$$

$$6x + 2y = 60$$

c) Price change effect quantity of y decrease because increasing in price of p_y with same amount of Budget Line. Substitution Effect is more of y and less of x from D to C .

D)



$x+y$ are normal good at point A and B