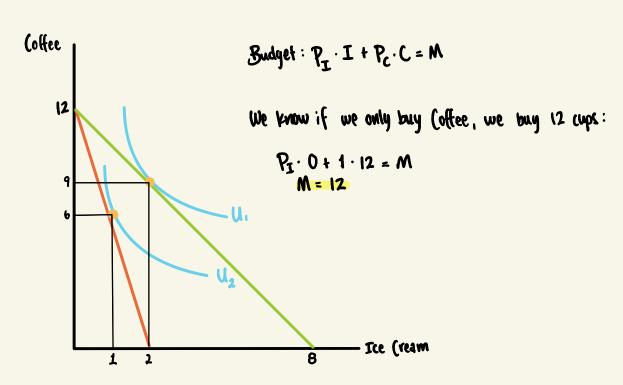
(n.5 - Individual & Market Demand Achieve Homework

Q.6

Kemala spends her income on ice cream & coffee Coffee sells for \$1 a cup.

If ice cream sells for \$1.50 per gallon, Kemala will buy how much ice cream:



Now we know M=12. We have fo find out what I is when $P_{\rm I}=1.5$. First let's determine which line we've on: If we buy only Ice Cream, we buy 2 gallons (Ped BC) or 8 (green BC)

So at red BL we have:

$$P_{c} \cdot C + P_{I} \cdot I = 12$$

 $P_{c} \cdot O + P_{I} \cdot 2 = 12$
 $2P_{I} = 12$
 $P_{I} = 12/2$
 $P_{I} = 6$

At green BC we have:

$$P_{c} \cdot C + P_{3} \cdot I = 12$$

$$P_{c} \cdot 0 + P_{3} \cdot 8 = 12$$

$$8P_{3} = 12$$

$$P_{1} = 12/8$$

$$P_{2} = 1.5$$

So $P_1 = 1.5$ on Green BL, this is where we are optimizing. At this BC, we choose 2 gallons.