Lecture 10 Worksheet (ECON211), AY 2025-26 [Date: 07 Aug 2025]

1. I ma the equ	nation of the line passin	ng through $(-1, 3)$	and $(5, -2)$.		
2. Suppose the	e price P per unit obta	ained by a firm in p	oroducing and selling	g Q units is $P = 11$	2-2Q, and the cost of
producing and	selling O units is $C =$	= 2(1) + 1/2(1" F11			e maximiim nront
producing and	selling Q units is $C =$	= 2Q + 1/2Q ² . Fii	id the pront maximi	zing quantity and th	e maximum profit.
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	3. If a cocoa shipping firm sells Q kg of cocoa in India, the price received is given by $P_E = 5 - \frac{1}{3}Q$. On the other hand, if the buys Q kg from its only source in Ghana, the price it has to pay is given by $P_G = 2 + \frac{1}{6}Q$. In addition, it costs ₹2 per kg so ship cocoa from its supplier in Ghana to its customers in India. Find the profit-maximizing output and the maximum profit.
,	4. The expenditure of a household on consumer goods, C , is related to the household's income, y , in the following way
	When the household's income is \$1,000, the expenditure on consumer goods is \$700, and whenever income increases by \$100, the expenditure on consumer goods as a function of ncome, assuming a linear relationship.
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