i. Calculate the price elasticity of demand from point A to point B. Intercpriet your answer.

At point A, the price of care $P_1 = 5000$ and the quantity demand of care = 1800 At point B, the price of cor $P_2 = 4500$ and the quantity demand of care = 2600

Theretore,

the price elasticity of demand =
$$\frac{92-91}{(92+91)/2} = \frac{2600-1800}{(2600+1800)/2}$$

$$\frac{P_2-P_1}{(P_2+P_1)} = \frac{(4500-5000)}{(4500+5000)/2}$$

$$\frac{(P_2+P_1)}{2} = \frac{800}{800}$$

2200 In absolute value -500 the price elasticity 4750 of demand = 3.46; = 0.3636 which is greater -0.1052 than 1. Therreforce, =-3.46

the price elasticity of demand is elastic in this

ii. Calculate cross-price elasticity of demand force can from point D to point A. Based on your answer identify whether the goods are complements on substitutes.

At point D,
the price of Oil $P_{01} = 75$ and the quantity demand for our $Q_1 = 5600$ At point A,
the price of oil $P_{02} = 100$

Now, the cross-price elasticity of demand =

and the quantity demand for car $0_2 = 1800$

 $\frac{92-91}{(92+91)/2} = \frac{1800-5600}{(1800+5600)/2}$ $\frac{92-91}{(1800+5600)/2} = \frac{100-75}{(100+75)/2}$ $\frac{92-91}{(1800+5600)/2} = \frac{100-75}{(100+75)/2}$ $\frac{3700}{25} = \frac{-1.027}{0.2857}$

Herre, the cross-price elasticity is about -3.595; which is negative. This implies that oil and care complements.