

4.

$$(A) MR = 100 - 2q = 20 = MC \Rightarrow q^* = 40 \quad p^* = 60 \quad ML = \frac{60 - 20}{60} = \frac{2}{3}$$

$$TV = (40 \times 60) - (30 + 20 \times 40) = 1570$$

(B) 無謂損失 =  $\frac{1}{2} (40 \times 40) = 800$

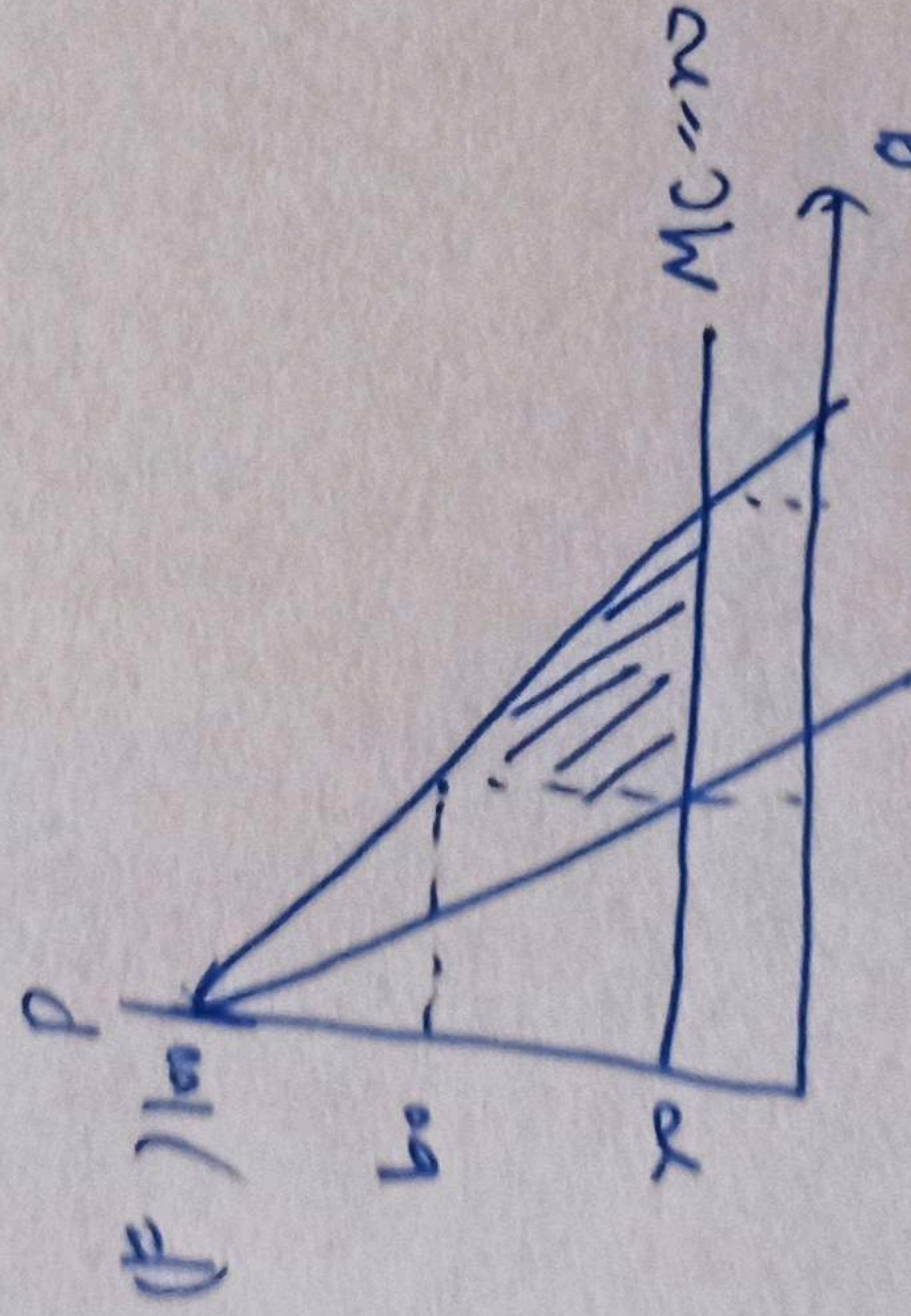
(C) 獨占力 =  $\frac{P - MC}{P} = \frac{60 - 20}{60} = \frac{2}{3}$

(D)  $MR = MC + 10$

$100 - 2q = 30 \quad q^* = 35 \quad p^* = 65$

$TV = (35 \times 65) - (30 + 20 \times 35) = (10 \times 35) = 1195$

(E)  $(1 - 10\%) MR = MC \Rightarrow 0.9 (100 - 2q) = 20$



$q^* = 40 \quad p^* = 60$

利潤減少額的部分

$TV = 1570, 1000 + 570$

(G) 利潤稅對產出、價格均無影響

$q^* = 40 \quad p^* = 60$

稅後利潤 =  $(0.8 \times \text{稅前利潤}) = (0.8 \times 1570) = 1256$

(H)  $P = MC \Rightarrow 100 - 2q = 20 \quad q^* = 80 \quad p^* = 20$

故虧損 =  $(80 \times 20) - (30 + 20 \times 80) = -30$

無謂損失 = 0