

10) $TC = \frac{Q^2}{2} + 20$ $MC = TC' = Q$ $MC = P$

$Q = P$

$\sum Q = 30P$

מכאן נובע: $P = \frac{Q}{30}$

$Q = 60 - P$

$\sum Q = 20(60 - P) = 1200 - 20P$

מכאן נובע: $P = \frac{1200 - Q}{20}$

מכאן נובע: $D = S$

$\frac{Q}{30} = \frac{1200 - Q}{20}$

$2Q = 3600 - 3Q$

$5Q = 3600$

מכאן נובע: $Q = 720$

$P = \frac{Q}{30} = \frac{720}{30} = 24$

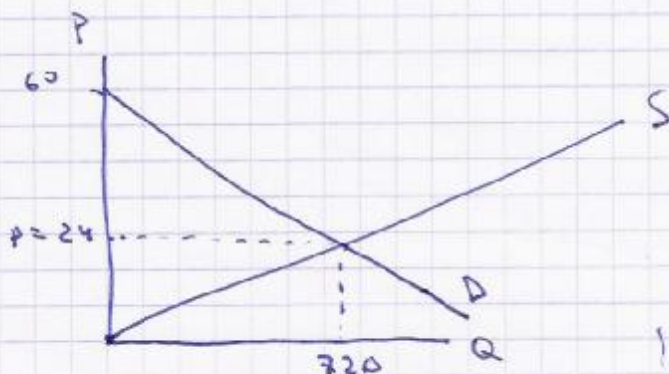
$P = 24$

כמות המוכרת: $\frac{720}{20} = 36$

כמות המיוצרת: $\frac{720}{30} = 24$

רווח: $\hat{\pi} = TR - TC = 24 \cdot 24 - \left(\frac{24^2}{2} + 20 \right)$

$\hat{\pi} = 576 - 308 = 268$



רווח יצרן: $\frac{24 \cdot 720}{2} = 8,640$

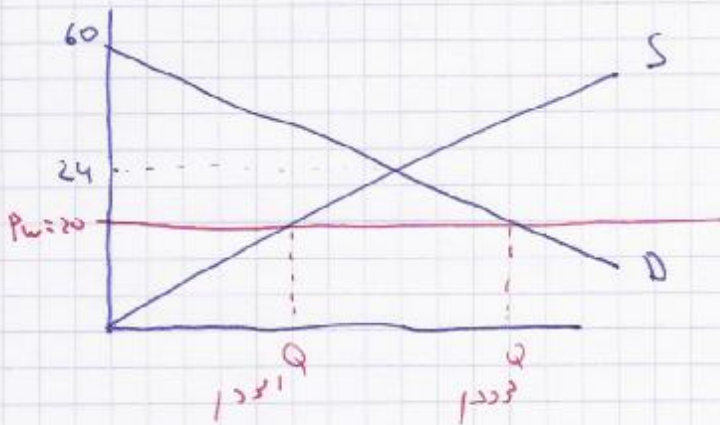
רווח צרכן: $\frac{(60 - 24) \cdot 720}{2} = 12,960$

רווח הכולל: $8,640 + 12,960 = 21,600$

2

$$P_w = 19 + 1 = 20$$

היצע נמוך מהביקוש
כתוצאה מכך מתקיימת מחסור.



$$P_{\text{מחיר}} = P_w = 20$$

$$Q_1 \Rightarrow 20 = \frac{Q}{30} \quad Q = 600$$

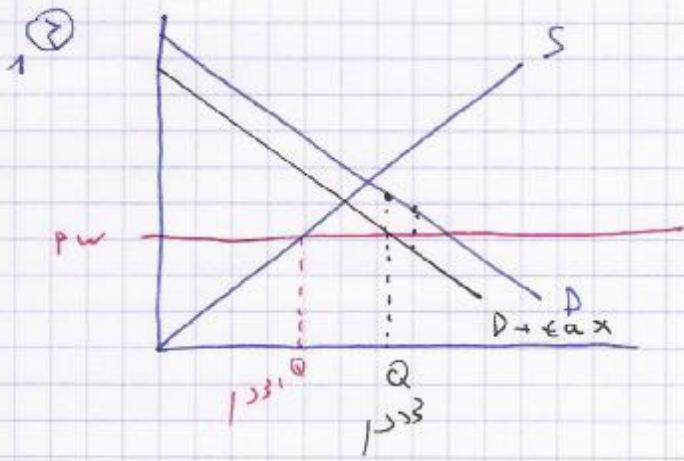
$$Q_2 \Rightarrow 20 = \frac{1200 - Q}{20} \quad Q = 800$$

$$עו"מ = Q_2 - Q_1 = 800 - 600 = 200$$

$$Q_1 \text{ יצר} \quad \frac{20 \cdot 600}{2} = 6000$$

$$Q_2 \text{ יצר} \quad \frac{(60 - 20) \cdot 800}{2} = 16,000$$

$$Q_2 \text{ יצר} \quad 6000 + 16,000 = 22,000$$



$$D + tax = D - 2$$

$$D + tax = \frac{1200 - Q}{20} - 2$$

$$D + tax = \frac{1200 - Q - 40}{20}$$

$$D + tax = \frac{1160 - Q}{20}$$

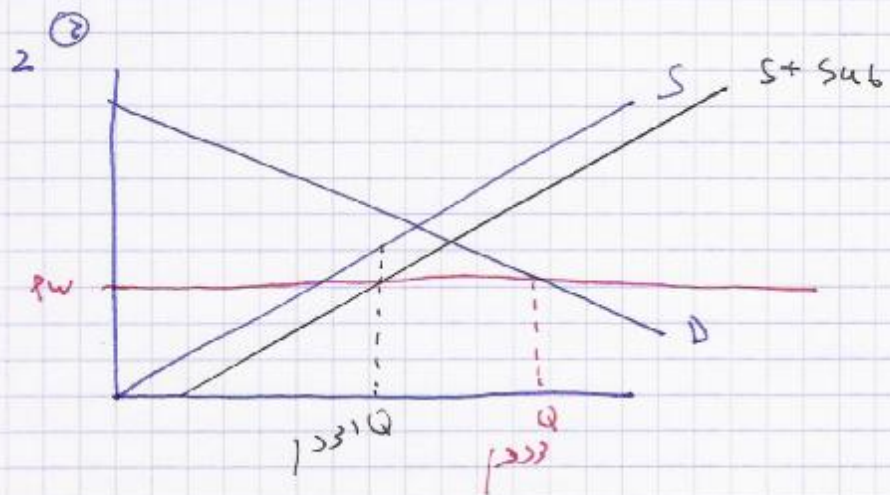
$Q = 710 \Rightarrow$ $Q = 710$
 $Q = 710 \Rightarrow$ $Q = 710$

$$Q = 710 \Rightarrow 20 = \frac{1160 - Q}{20} \quad Q = 710$$

$$Q = 710 \Rightarrow 20 = \frac{1160 - Q}{20} \quad Q = 710$$

$$Q = 710 \Rightarrow 20 = \frac{1160 - Q}{20} \quad Q = 710$$

$$Q = 710 \Rightarrow 20 = \frac{1160 - Q}{20} \quad Q = 710$$



$$S + sub = S - 2$$

$$S + sub = \frac{Q}{30} - 2$$

$$S + sub = \frac{Q - 60}{30}$$

$Q = 660$
 $Q = 660$

$$Q = 660 \Rightarrow 20 = \frac{Q - 60}{30} \quad Q = 660$$

$$Q = 660 \Rightarrow 20 = \frac{Q - 60}{30} \quad Q = 660$$

$$Q = 660 \Rightarrow 20 = \frac{Q - 60}{30} \quad Q = 660$$

$$Q = 660 \Rightarrow 20 = \frac{Q - 60}{30} \quad Q = 660$$

2	Q = 660
2	Q = 660
1	Q = 660
1	Q = 660