2C. Max-min problems

1)

L=12-2x
$$V = x(12-2x)^{3}$$
 $V = x(12-2x)^{3}$ 
 $V = \frac{20000}{x}$ 
 $V = \frac$ 

$$\lambda_{1} = 0 \implies b = 10$$

$$\lambda = 10_{2} \left( 10 - \frac{y}{b} \right) b - 10_{2} \left( 10 - \frac{y}{b} \right) \left( 10 - \frac{10_{2} \left( 10 - \frac{y}{b} \right)}{10_{2}} \right) = 10_{2} \left( 10 - \frac{y}{b} \right) \left( b - 10 + 10 - \frac{y}{b} \right) = 10_{2} \left( 10 - \frac{y}{b} \right) \frac{y}{b}$$

$$\lambda = 10_{2} \left( 10 - \frac{y}{b} \right) b - \left( 10 - \frac{y}{a} \right) x$$

$$\lambda = 10_{2} \left( 10 - \frac{y}{b} \right) b - \left( 10 - \frac{y}{a} \right) x$$

B,=0 => [b=972]