

$$V(t) = 20000 - 800t + 8t^2$$

a)  $V(t) = 0$  ger

$$20000 - 800t + 8t^2 = 0$$

$$\Leftrightarrow$$

$$t^2 - 100t + 2500 = 0$$

$$\Leftrightarrow$$

$$t = 50 \pm \sqrt{\underbrace{50^2 - 2500}_0}$$

$$\Leftrightarrow$$

$$t = 50$$

b)  $\frac{V(22) - V(18)}{4} =$

$$= \frac{20000 - 800 \cdot 22 + 8 \cdot 22^2 - 20000 + 800 \cdot 18 - 8 \cdot 18^2}{4} =$$

$$= -480 \text{ l/min}$$

c) ? (oprecis fråga)

d)  $\frac{V(a) - V(0)}{a} = -600$

$$\Leftrightarrow$$

$$\frac{20000 - 800a + 8a^2 - 20000}{a} = -600$$

----- 600

$$a$$

$\Leftrightarrow$

$$-800 + 8a = -600$$

$\Leftrightarrow$

$$8a = 200$$

$\Leftrightarrow$

$$a = 25$$