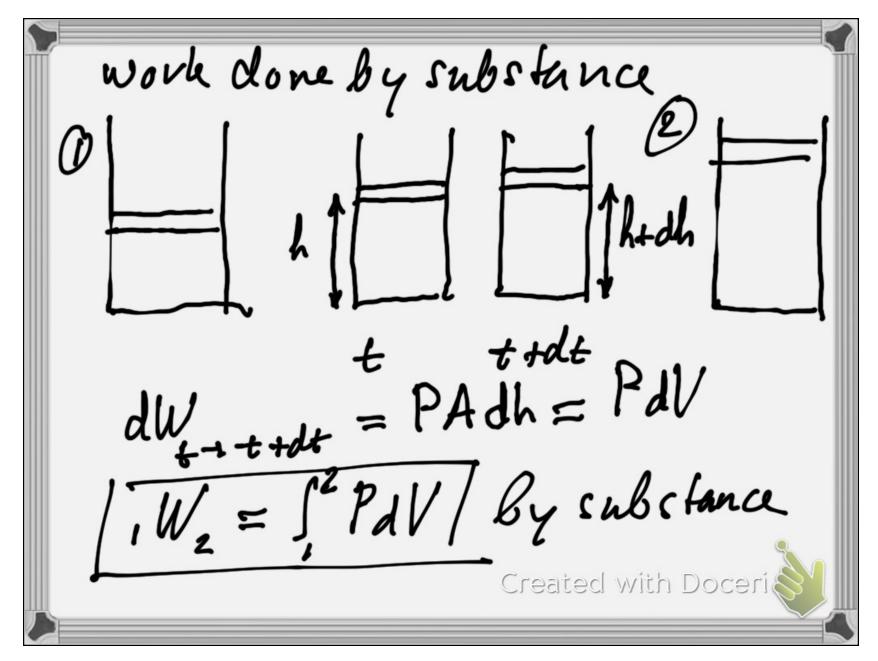
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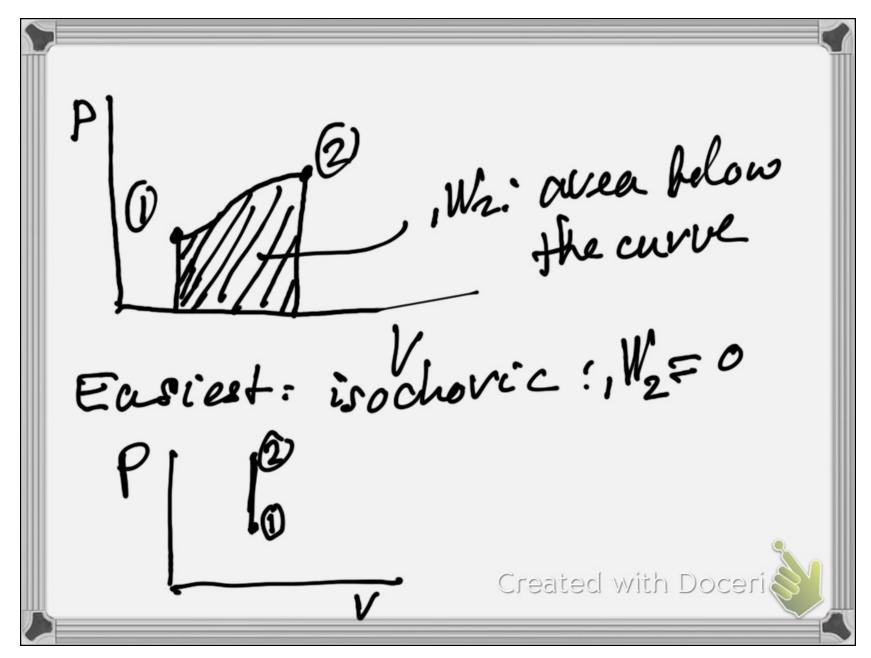
Unite Nm = 7 Book: Work / unit time Fx Vx Nm/s= J/s= W Wath

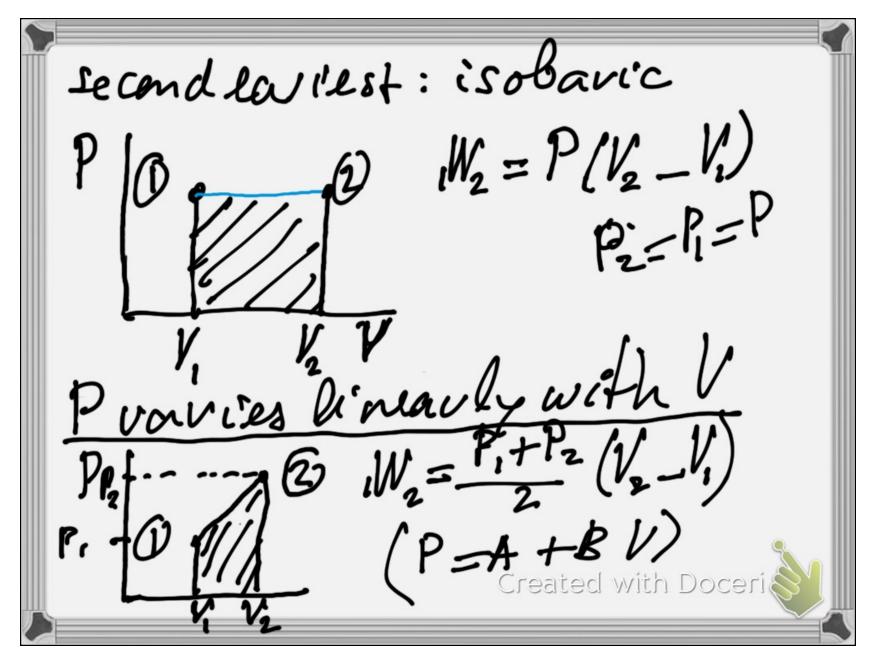
UKihp = 550 Ht ld/s (A1)

Specie work w= W

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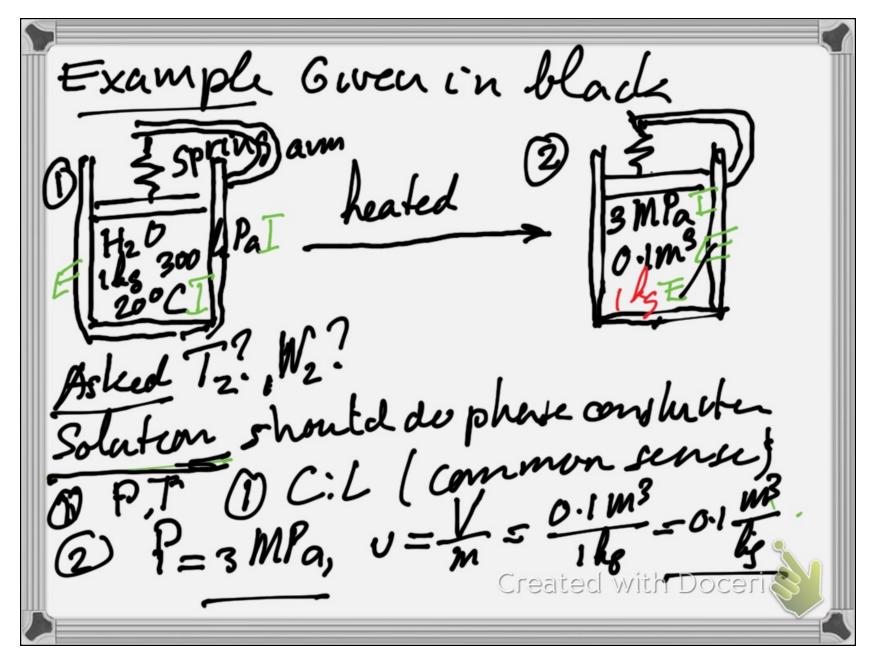


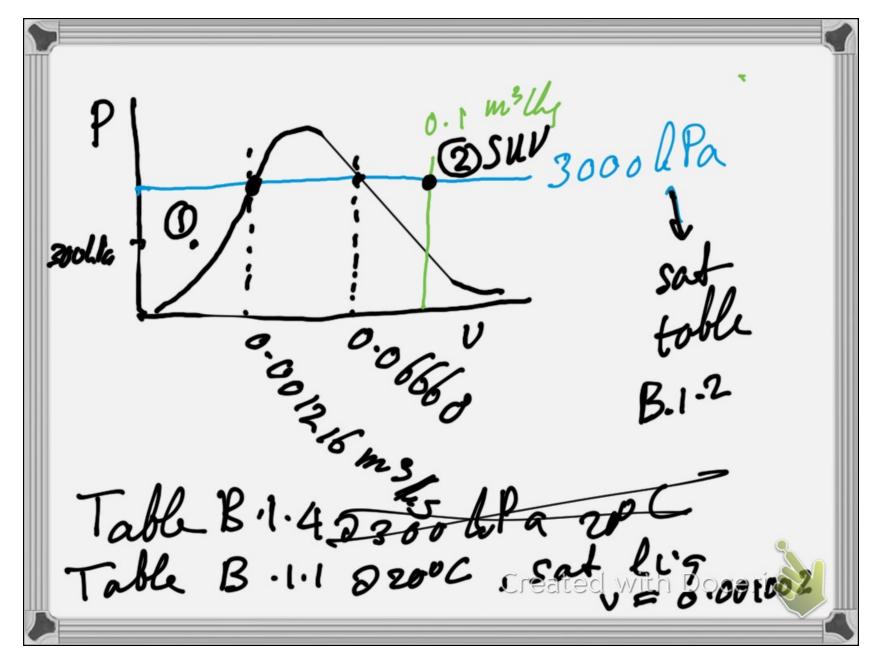


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Polytropic PV = constant n called polytropic coefficient  $\neq \overline{n}$ : num ber of moles For an ideal gas PV=mRJ Viso thermal IB. - polytropic n=1

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$$V_{1} = 0.001002 \text{ ms/}_{4}$$

$$V_{1} = mV_{1} = 0.001002 \text{ m}^{3}$$

$$V_{2} = 0.1 \text{ m}^{3} \quad P_{1} = 300 \text{ kPa} \quad P_{2} = 3\text{ MBa}$$

$$1W_{2} = \frac{P_{1} + P_{2}}{2} \quad W_{2} - V_{1}$$

$$= \frac{300 + 3000 \text{ Pa}}{2} \quad (0.1 - 0.00 \text{ loo2}) \text{ m}^{3}$$

$$= \frac{163.35 \text{ EJ}}{2}$$
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(2) 
$$P_{2}=3MPa$$
  $V_{2}=0.1m_{3}^{3}$   $SW$ 

$$d = d_{1} + \frac{9-9!}{9^{2}-9!} (d_{2}-d_{1})$$

$$q = 0.1 m_{3}/k_{5}$$

$$q = 0.09936$$

$$d_{1} = 4000C$$

$$q_{2} = 0.10789$$

$$d_{2} = 4500C$$

$$q_{3} = 4000$$

$$d_{2} = 4500C$$

$$q_{3} = 4000C$$

$$d_{3} = 4000C$$
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