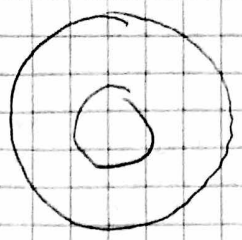
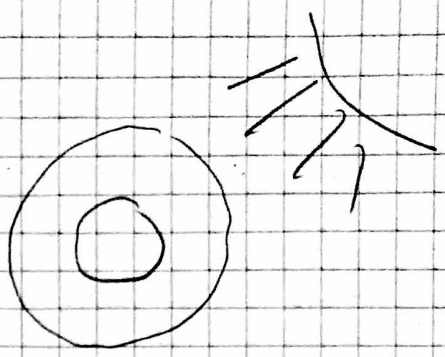
2.





övertryck 250 kPa
+101,3 kPa

320 kPa
+101,3 kPa

trycket $p_1 = 351,3$ kPa

$p_2 = 421,3$ kPa

$T_1 = 10°C \underset{+273}{} = 283$ K

$T_2 = ?$

- Bildäckets volym ändras nästan inte.

$$V_1 = V_2$$

samma

$$\frac{p_1 \cancel{V_1}}{T_1} = \frac{p_2 \cancel{V_2}}{T_2}$$

$$\frac{p_1}{T_1} = \frac{p_2}{T_2}$$

sätt in värden eller lös ut T_2

$$T_2 = \frac{p_2 T_1}{p_1} = \frac{431,3 \cdot 283}{351,3} \approx 347 \text{ K} = 74°C$$

-273

SVAR: 74°C