CHE 260 QUIZ
$$\frac{1}{2}$$
 - 2014

1) 9deal gas $\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2}$

The polytopic process $\frac{P_1V_1}{T_2} = \frac{P_2V_2}{T_2}$

Plant $\frac{P_2}{T_1} = \frac{P_2V_2}{T_2}$

The polytopic process $\frac{P_1V_1}{T_2} = \frac{P_2V_2}{T_2}$

The polytopic process $\frac{P_2V_1}{T_2} = \frac{P_2V_2}{T_1}$

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② FOR
$$CO_2$$
 $P = 0.1889$ ET/gK
 $V_1 = mRT$
 P_1
 $= 2 \times 0.1889 \times 6.73 \times = 0.5085 \text{ m}^3$
 500 kPa
 $V_2 = m PT_2$
 P_2
 $= 2 \times 0.1889 \times 313 \times = 0.2942 \text{ m}^3$
 300 kPa
 $P(kA)$
 500
 V_2
 V_3
 V_4
 V_5
 V_6
 V_7
 V_8
 V_8
 V_9
 V_9

(3)
$$9 + w = m(he-hi)$$

=> $9 = mcp(Te-Ti) - w$
For helium $cp = 5.193 \frac{2J}{pg}1L$.
=> $9 = 0.05 \times 5.193 (300 - 550) + 55$
= -9.9 kW