

2020

Бүлгэм 21

№21

$$i = 6$$

$$Q = 4 \text{ kJm}$$

$$p = \text{const}$$

$$A = ?$$

$$Q = \Delta U + A$$

$$A = p \Delta V \quad \Delta U = 3 \nu R \Delta T$$

$$pV = \nu R T$$

$$A = \nu R \Delta T \quad \Delta U = 3A$$

$$Q = 4A$$

$$A = \frac{Q}{4} = 1 \text{ kJm}$$

Бүлгэм 22

$$p = \alpha V^4$$

$$V_2 = 2V_0$$

$$P_0 = \alpha V_0^4$$

$$P = \alpha V^4$$

$$\frac{P_0}{P} = \left( \frac{V_0}{V} \right)^4 = \frac{1}{16}$$

$$P = 16 P_0$$

$$\frac{2V_0}{P}$$

$$V_1$$

$$2V_0$$

$$P$$

$$\frac{\alpha V^5}{2V_0}$$