知学)第7簿 課題 8223026 栗山淳
$$C_P - C_V = (3H)_P - (3V)_V$$

$$(3H)_P = (3V)_P + P(3V)_P$$

$$(H=UtPV) = (3V)_P + P\alpha V$$

$$C_{P}-C_{V}+(\frac{2}{27})_{P}+P\alpha V+\pi_{T}(\frac{2V}{27})_{P}-(\frac{2V}{27})_{P}$$

$$=P\alpha V+\pi_{T}\cdot V\alpha$$

$$=P\alpha V+(\tau(\frac{2V}{27})_{V}-P)\cdot V\alpha(\tau,\pi_{T}=\tau(\frac{2V}{27})_{V}-P)$$

$$=P\alpha V+(\frac{2P}{27})_{V}\cdot V\alpha-P\alpha$$

$$=V\alpha(-(\frac{2P}{2V})_{T}(\frac{2V}{27})_{P})$$

$$=TV\alpha(-(-\sqrt{V})_{T}\cdot V\alpha)$$