1η ΑΣΚΗΣΗ

A. $U = 1275$ kcal, $B = 15$ kp $\rightarrow$ $u = \frac{1275}{15} = 85$ kcal/kp

u	T	h
54,28	600	75,36
85	T_A	h_A
92,50	800	127,86

$$T_A = 600 + \frac{800-600}{92,50-54,28} \times (85-54,28) = 760,75 \text{ (K)}$$

$$h_A = 75,36 + \frac{127,86-75,36}{92,50-54,28} \times (85-54,28) = 117,557 \text{ kcal/kp}$$

$$H_A = 15 \text{ (kp)} \times 117,557 \text{ (kcal/kp)} = 1763,367 \text{ (kcal)}$$

B. $H = 3395$ kcal $\rightarrow$ $h = \frac{3395}{15} = 226,333$ (kcal/kp)

h	T	u
182,86	1000	133,21
226,333	T_B	u_B
239,64	1200	175,71

$$T_B = 1000 + \frac{1200-1000}{239,64-182,86} \times (226,333-182,86) = 1153,127 \text{ (K)}$$

$$u_B = 133,21 + \frac{175,71-133,21}{239,64-182,86} \times (226,333-182,86) = 165,749 \text{ (kcal/kp)}$$

$$U_B = 15 \text{ (kp)} \times 165,749 \text{ (kcal/kp)} = 2486,245 \text{ (kcal)}$$