

Str. 136 / úloha 736

$$m_x = 2 \text{ kg}$$

$$t_0 = -20^\circ\text{C}$$

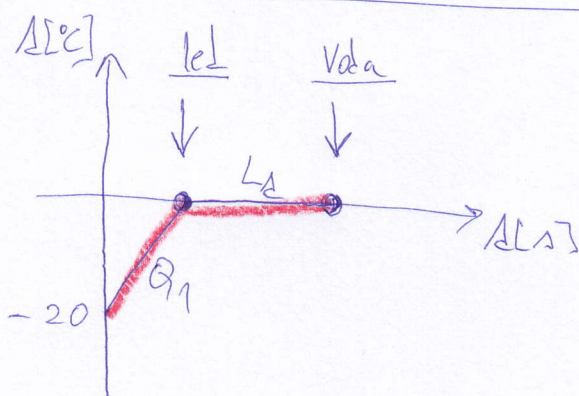
$$t = 0^\circ\text{C}$$

$$Q = ? \text{ [J]}$$

$$c_l = 2100 \frac{\text{J}}{\text{kg}\cdot^\circ\text{C}}$$

$$l_A = 334 \frac{\text{kJ}}{\text{kg}} = 334\,000 \frac{\text{J}}{\text{kg}}$$

Náčrt



$$Q = Q_1 + L_A$$

$$Q_1 = m_x \cdot c_l \cdot (t - t_0)$$

$$L_A = m \cdot l_A$$

$$Q = 84\,000 + 668\,000$$

$$Q_1 = 2 \cdot 2100 \cdot (0 - (-20))$$

$$L_A = 2 \cdot 334\,000$$

$$Q = 752\,000 \text{ J}$$

$$Q_1 = 84\,000 \text{ J}$$

$$L_A = 668\,000 \text{ J}$$

$$\underline{\underline{Q = 0,752 \text{ MJ}}}$$

Soustava přijala od svého okolí 0,752 MJ tepla.