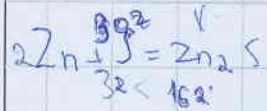


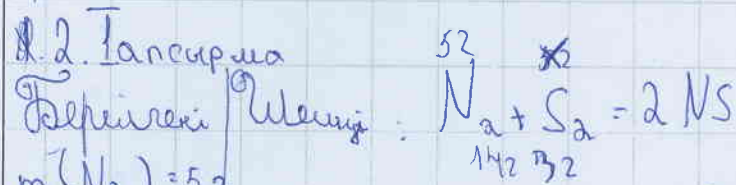
$m(\text{Zn} + \text{S}) = ?$

$M(\text{Zn}) = \frac{M}{m} = \frac{65}{70} = 0,928$

$m(\text{S}) = \frac{M}{m} = 9,08$

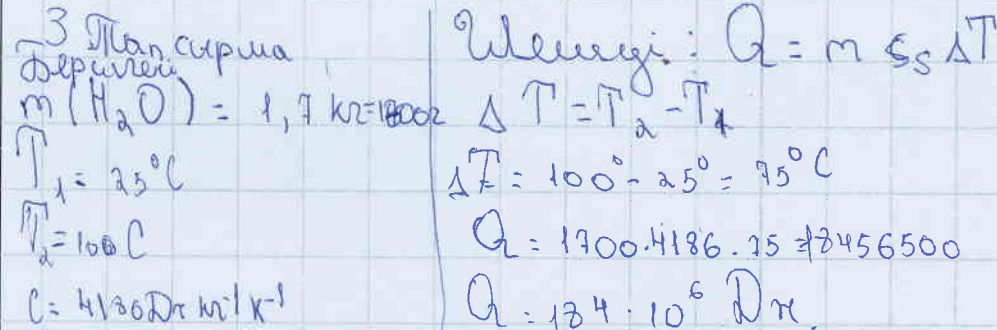


$x = \frac{162 \cdot 30}{32} = 150,62$

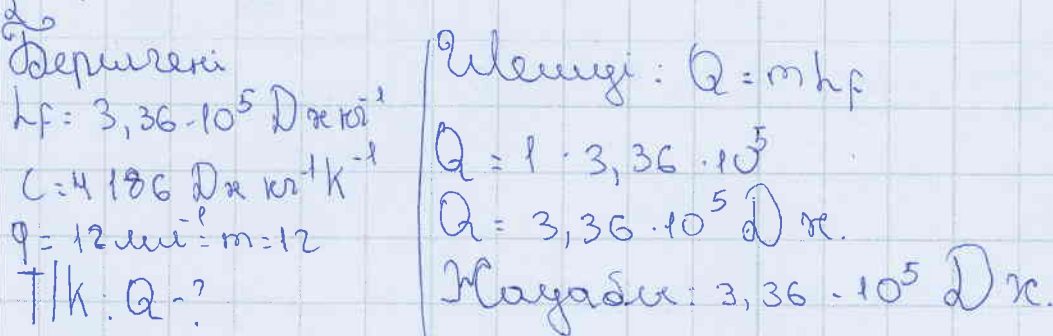


$T/K \text{ (S)} = ?$ $52 - 100\%$ $x = \frac{20 \cdot 5}{100} = \frac{100}{100} = 1$

$x = 200\% m$
 $m(\text{S}) = \frac{5 \cdot 3}{14} = \frac{15}{14} = 1,07$



Шешуі: $T/K: Q = ?$



3.3.

3.3.

Берілгені

$$t = 2 \text{ мин} = 120 \text{ с}$$

$$k = 0,084 \text{ Вт м}^{-1} \text{ К}^{-1}$$

$$A = 0,15 \text{ м}^2$$

$$d = 0,25 \text{ мм} = 0,00025 \text{ м}$$

$$T_r = 15^\circ \text{C}$$

$$Q = 3,36 \cdot 10^5 \text{ Дж кт}^{-1}$$

$$T/k: R$$

$$\text{Шешімі: } R \leq \frac{Q}{t} = \frac{kA(T_r - T_x)}{d}$$

$$\frac{3,36 \cdot 10^5}{120} = \frac{0,084 \cdot 0,15 (15 - T_x)}{0,0025}$$

$$\frac{3,36 \cdot 10^5}{120} = \frac{0,031 (15 - T_x)}{0,0025}$$

$$120 \cdot 0,031 (15 - x) = 3,36 \cdot 10^5 \cdot 0,0025$$

$$0,0372 (15 - x) = 0,7 \cdot 10^5$$

$$0,557 - 0,0372x = 0,7 \cdot 10^5$$

$$0,557 - 0,7 \cdot 10^5 = 0,0372x$$

$$-0,257 = 0,0372x$$

$$x \approx 0,6$$

$$T_x \approx 0,6 \text{ C}$$

$$\text{Жауабы: } 0,6 \text{ C}$$

4.1.



4.2.

Берілгені

$$V(\text{Cu} + \text{Mn}) = 100 \text{ г}$$

$$q(\text{Cu}_2\text{Mn}) = 1,184 \text{ г/м}$$

Шешімі:

