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1.

0,5 (0,5)	1 - $2S$	1
	2 - $[I()_4]$	1
	3 - (II) bS	1
	4 - $(IV) S_2$	1
(1)	1) $2 I_3 + 3 S_2 + 6 I = 2 I()_3 + 3 S_2 + 6 I$	1
	2) $2 I()_3 + = [I()_4]$	1
	3) $S_2 + Pb(NO_3)_2 = PbS + 2 NO_3$	1
	4) $2PbS + 3 S_2 = 2Pb + 2S_2$	1
	5) $[I()_4] + S_2 = S_3 + I()_3$	1
	$2 [I()_4] + S_2 = 2S_3 + 2 I()_3 + 2$	
	6) $I()_3 + 3 I = I_3 + 3 S_2$	1
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(1)	$2 S_4 + 2 S_2 = 2 S_4 + 2 S_2 + 2 S_4 ()$	1
	$2 gS_4 + 2 S_2 = 2 g + S_2 + 2 S_4 ()$	1
	$S_4 + 2Na = Na_2S_4 + 2 S_2$	1
	$Na + I = NaI + S_2$	1
Na	$m(Na) = V \times \rho = 22,5 \times 1,11 / = 24,975 = 25$ $m(Na) = \omega \times m = 25 \times 0,112 = 2,8$ $n(Na) = m / = 2,8 / 40 / = 0,07$	1
1	$M = n / V$ $n(I) = M V = 0,625 / 0,016 = 0,01$	1
,	$V(I) = Vm n(I) = 22,4 / 0,01 = 0,224$	1

	$m(\text{S}_4\text{S}_2) = n = 250 / 0,01 = 2,5$ $m(\text{gS}_4) = m(\text{S}_4\text{S}_2) - m(\text{S}_4\text{S}_2) = 8,44 - 2,5 = 5,94$	1
()	$\omega(\text{S}_4\text{S}_2) = m / m = 2,5 / 8,44 = 0,296$ (29,6%) $\omega(\text{gS}_4) = 100\% - 29,6\% = 70,4\%$	1
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3.

	$r(\text{S}_2) = r \cdot r_r = 40 \cdot 2,65 = 106$	1
	$n(\text{S}_2) = m / r = 31,8 / 106 = 0,3$	1
	$n(\text{S}_3) = m / r = 240 / 100 = 2,4$	1
(1)	$2 + (\text{S}_2)_2 = 3 + 2$	1
	$3 \cdot 2 + 2 \cdot 5 = 2 \cdot 3 \cdot 4$	1
2 2	$\begin{array}{r} 2,4 \\ \hline 1 \quad 1 \quad 3 \\ = 2,4 \quad 2 \end{array}$	1
	$n(\text{H}_2\text{O}) = 27 / 18 = 1,5$	1
	$0,3 \quad 2,4 \quad 1,5$ $1 \quad + \quad 2 \quad 2 \quad + \quad 2$ $x = 2,4 / 0,3 = 8$ $= 1,5 / 0,3 = 5$	1

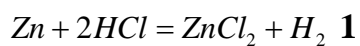
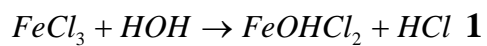
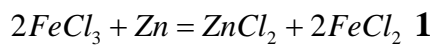
	$+ 10,5 \quad 2 \quad 8 \quad 2 + 5 \quad 2$	1
		1
(0,5 0,5)	1,2 – (-)	1
	1,3- (-)	1
	1,4- (-)	1
		1
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(2)	Ar(A) = x Ar() = : $r(\text{MgA}_2)_4 = 24 + 2 + 4$	MgA ₂ 4, 1
	Mg(H ₃ A ₂) ₂ , Ar(A) = x Ar() = : $r(\text{Mg}(\text{H}_3\text{A}_2)_2) = 24 + 6 + 4 + 4 =$ $= 30 + 4 + 4$	1
(2 MgA ₂ 4)	$\omega(\text{Mg}) = \frac{24}{24 + 2x + 4y} = 0,2164$	1
	24 = 0,2164(24 + 2 + 4) 111 = 24 + 2 + 4	1
(2 Mg(H ₃ A ₂) ₂)	$\omega(\text{Mg}) = \frac{24}{30 + 4x + 4y} = 0,1708$	1
	24 = 0,1708(30 + 4 + 4) 140,5 = 30 + 4 + 4	1

	$\begin{cases} 111 = 24 + 2x + 4y \\ 140,5 = 30 + 4x + 4y \end{cases}$	1
(2)	$\begin{aligned} 29,5 &= 6 + 2 \\ &= 12 \\ \text{Ar (A)} &= 12, \end{aligned}$	1
	$\begin{aligned} 111 &= 24 + 2 + 4, 111 = 24 + 24 + 4 \\ 63 &= 4 \\ &= 15,75 \\ \text{Ar()} &= 16, \end{aligned}$	1
(2)	$- \text{MgC}_2\text{O}_4 -$	1
	$- \text{Mg}(\text{H}_3\text{C}_2\text{O}_2)_2 \quad \text{Mg}(\text{CH}_3\text{COO})_2 -$	1
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