**Задача 1**

**Rэкв** = R1 + + = 55 + + = 55 + 9,83 + 2,2 = **67,03 Ом**

**IAB** = = = **89,5 мА**

**Задача 2**

**Rэкв** = R1 + + R3 = 20 + + 6 = 20 + 3,85 + 6 = **29,846 Ом**

**I1** = = = **402 мА**

**UR1** = I1\* R1 = 0,402 \* 20 = **8,04В**

**UR3** = I1\* R3 = 0,402 \* 6 = **2,412В**

**UR2** = E - UR1 - UR2 = 12 – 8,04 – 2,412 = **1,548B**

**I2** = = = **194 мА**

**I3** = I1 – I2 = 402 – 194 = **208 мА**

**UR4** =I3 \* R4= 0,208 \* 2= **0,416B**

**UR7** = UR2 - UR4 = 1,548 – 0,416 = **1,132B**

**I5** = = = **94 мА**

**I4** = = = **0,113 мА**

**UR5** =I4 \* R5= 0,113 \* 1= **0,113B**

**UR6** =I4 \* R6= 0,113 \* 9= **1,017B**

**Задача 3**

**R** = = = **46,3 Ом**

**Задача 4**

R2 = R3 = 3 \* R1 = 3 \* 6,3 = 18,9 Ом

Rэкв = = = = 3,78 Ом

Rэкв + Rвнутр =

**Rвнутр** = - Rэкв = – 3,78 = **39,43 Ом**

**Задача 5**

Rэкв = R1 + Rx/7 = 2,7 + 6,5/7 = 3,63 Ом

I = = = 3,91 A

**Ux1 =Ux2 =Ux3 =Ux4 =Ux5 =Ux6 = Ux7** = Rx/7 \* I= 6,5/7 \* 3,91= **3,63B**

**Задача 6**

**I1** = = = **2,915А**

**I2** = = = **623мА**

**I3** = = = **2,015А**

**I****=** **I1** + **I2** + **I3** = 2,915+ 0,623 + 2,015= **5,552 A**