10) $\frac{R2 \cdot R4}{R4 + R2}$

$\frac{220k\Omega \cdot 68k\Omega}{68k\Omega + 220k\Omega} = \underline{51,94k\Omega}$

$R_{24} = \underline{51,94}$

$\frac{R_{24} \cdot R3}{R3 + R_{24}}$

$\frac{51,94 \cdot 12k\Omega}{12k\Omega + 51,94k\Omega} = \underline{9,75k\Omega}$

$R_{234} = \underline{9,75k\Omega}$

$R1 = R_{234} \cdot \frac{U_B - U_A}{U_A}$

$R1 = 9,75k\Omega \frac{24V - 12V}{12}$

$R1 = \underline{9,75k\Omega}$