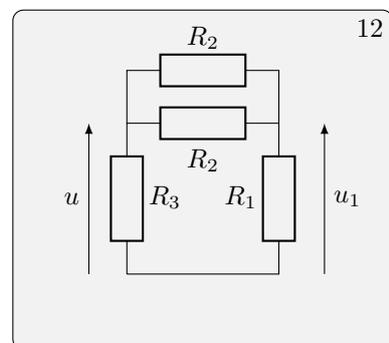
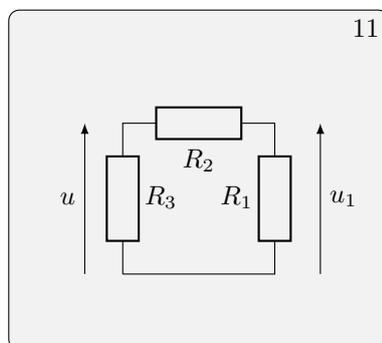
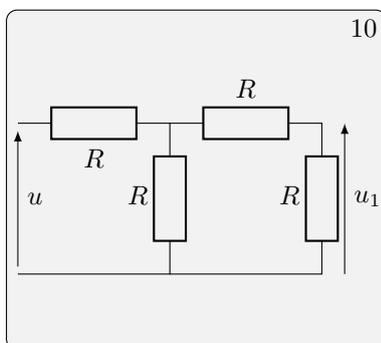
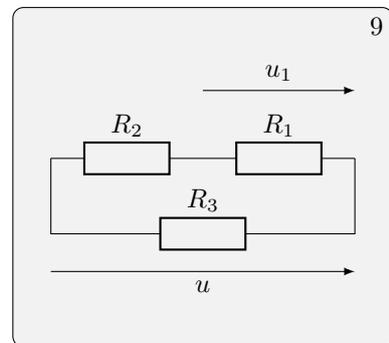
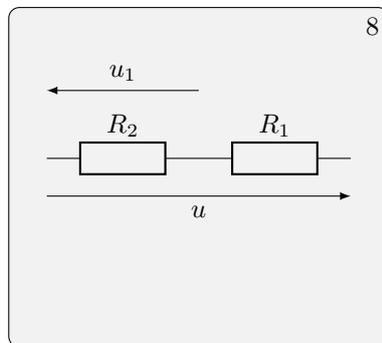
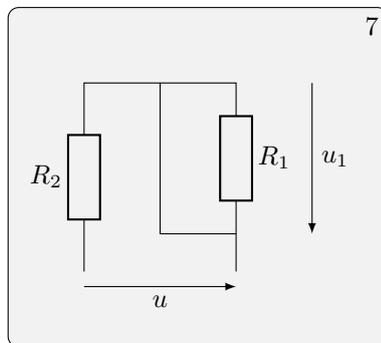
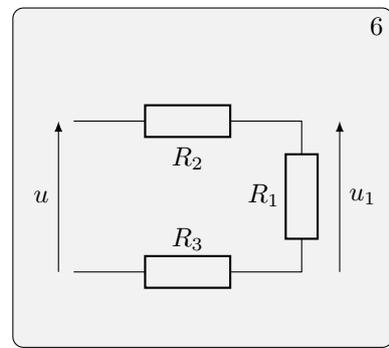
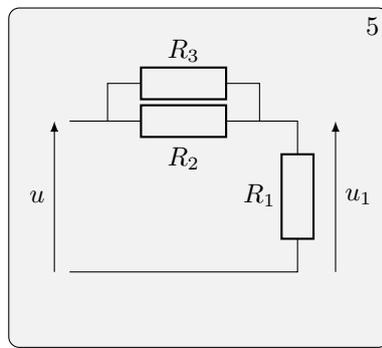
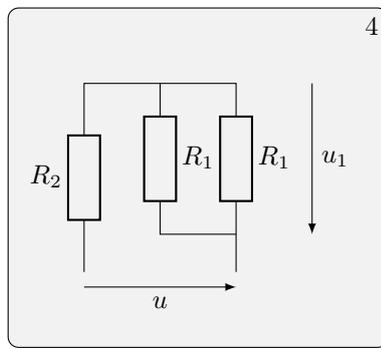
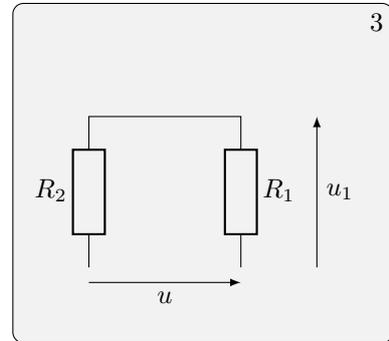
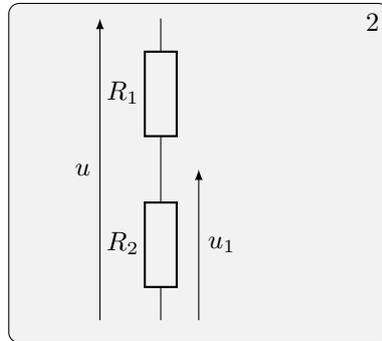
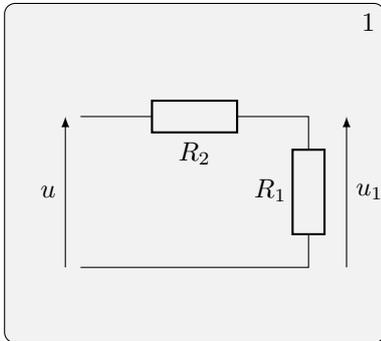


Entraînement technique : Ponts diviseurs

1 Ponts diviseurs de tension

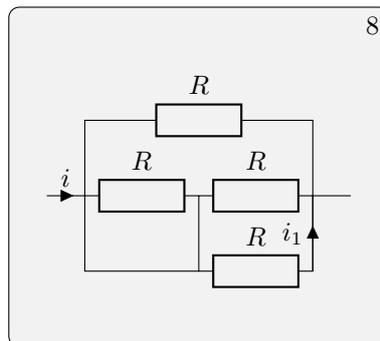
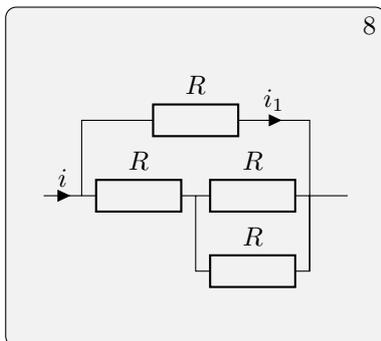
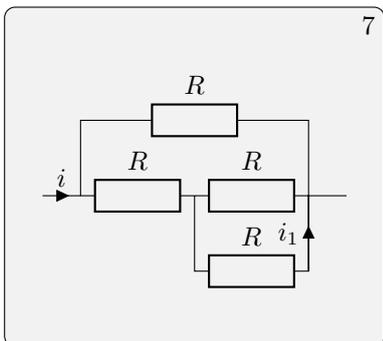
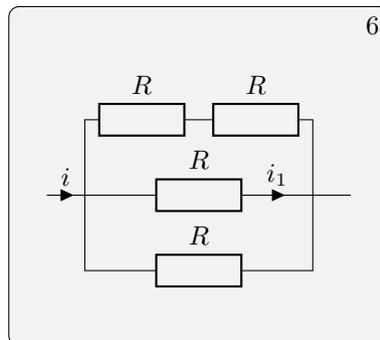
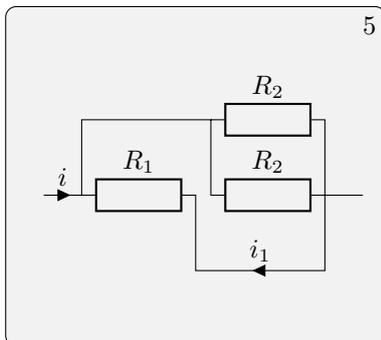
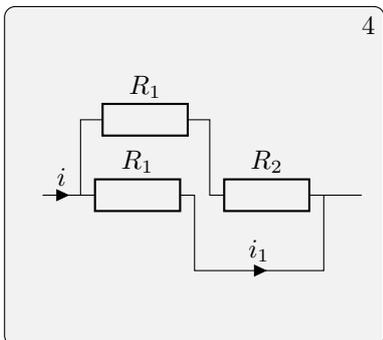
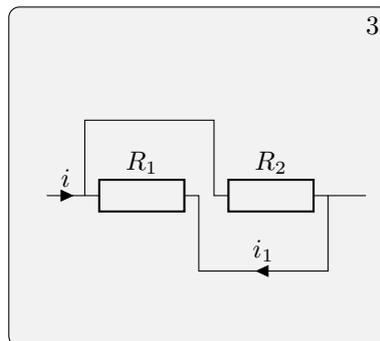
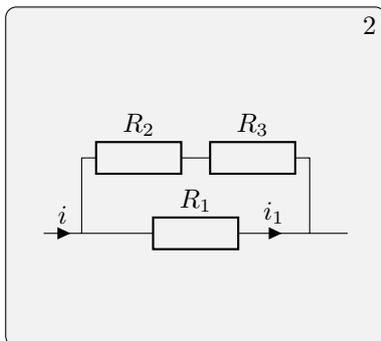
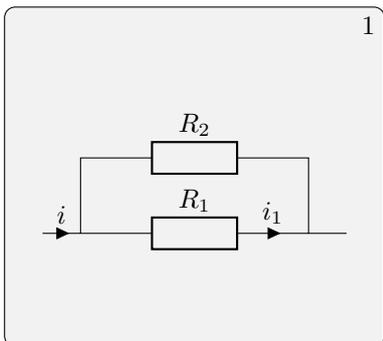
En utilisant uniquement des ponts diviseurs de tension (et résistances équivalentes), donner l'expression de la tension u_1 en fonction de u et des résistances indiquées sur le circuit.



1. $u_1 = \frac{R_1}{R_1+R_2}u$ 2. $u_1 = \frac{R_2}{R_1+R_2}u$ 3. $u_1 = -\frac{R_1}{R_1+R_2}u$ 4. $u_1 = -\frac{R_1}{R_1+2R_2}u$ 5. $u_1 = \frac{R_1(R_2+R_3)}{R_1R_2+R_1R_3+R_3R_2}u$
 6. $u_1 = \frac{R_1}{R_1+R_2+R_3}u$ 7. $u_1 = 0$ 8. $u_1 = -\frac{R_2}{R_1+R_2}u$ 9. $u_1 = \frac{R_1}{R_1+R_2}u$ 10. $u_1 = \frac{1}{5}u$ 11. $u_1 = \frac{R_1}{R_1+R_2}u$
 12. $u_1 = \frac{R_1(R_2+R_3)}{R_1R_2+R_1R_3+R_3R_2}u$

2 Ponts diviseurs de courant

En utilisant uniquement des ponts diviseurs de courant (et résistances équivalentes), donner l'expression de l'intensité i_1 en fonction de i et des résistances indiquées sur le circuit.



1. $i_1 = \frac{R_2}{R_1+R_2}i$ 2. $i_1 = \frac{R_2+R_3}{R_1+R_2+R_3}i$ 3. $i_1 = -\frac{R_2}{R_1+R_2}i$ 4. $i_1 = \frac{R_1+R_2}{2R_1+R_2}i$ 5. $i_1 = -\frac{R_2}{2R_1+R_2}i$ 6. $i_1 = \frac{2}{5}i$
 7. $i_1 = \frac{1}{5}i$ 8. $i_1 = \frac{3}{5}i$ 9. $i_1 = \frac{1}{3}i$