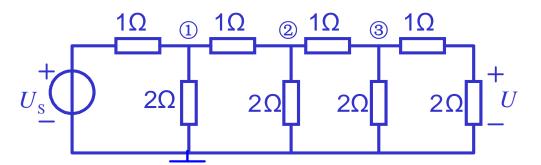
齐性定理



例2 求图示梯形电路的电压U,已知 $U_s = 10V$ 。



假设 U'=2V,则 $U'_3=3V$

假设
$$U' = 2V$$
,则 $U'_3 = 3V$ $U'_S = (\frac{21}{4} + \frac{43}{8})A \times 1\Omega + U'_1 = \frac{171}{8}V$ $U'_2 = (1 + \frac{3}{2})A \times 1\Omega + 3V = \frac{11}{2}V$ $U = \frac{U_S}{U'_S}U' = \frac{10V \times 2V}{171V/8V}$ $U'_1 = (\frac{5}{2}A + \frac{5.5V}{2\Omega}) \times 1\Omega + U'_2 = \frac{43}{4}V$ $= \frac{160}{171}V = 0.936V$