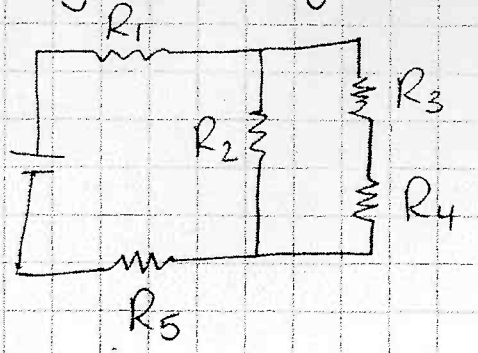
P #7 Ch 18 - pg 578

Redrawing the diagram...



$R_1 = 5\Omega$
$R_2 = 5\Omega$
$R_3 = 5\Omega$
$R_4 = 5\Omega$
$R_5 = 1.5\Omega$

Find R_{34}... (Series)

$$R_{34} = R_3 + R_4 = 5\Omega + 5\Omega$$
$$R_{34} = 10\Omega$$

Find R_{234}... (Parallel)

$$\frac{1}{R_{234}} = \frac{1}{R_2} + \frac{1}{R_{34}}$$
$$R_{234}^{-1} = (5\Omega)^{-1} + (10\Omega)^{-1}$$
$$R_{234}^{-1} = .3$$
$$R_{234} = 3.\overline{3}\Omega$$

Find R_{eq}... (Series)

$$R_{eq} = R_1 + R_{234} + R_5$$
$$= 5\Omega + 3.\overline{3}\Omega + 1.5\Omega$$

$$\boxed{R_{eq} = 9.83\Omega}$$