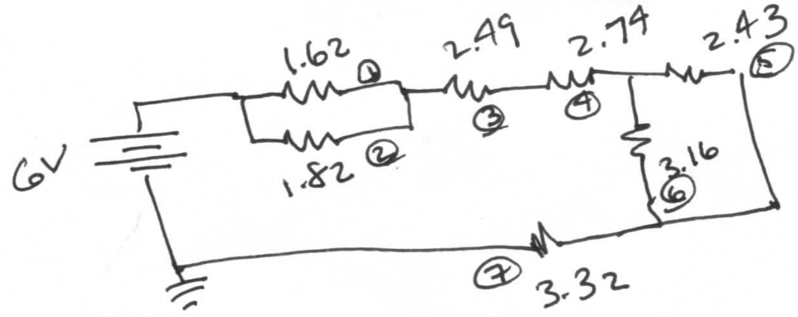
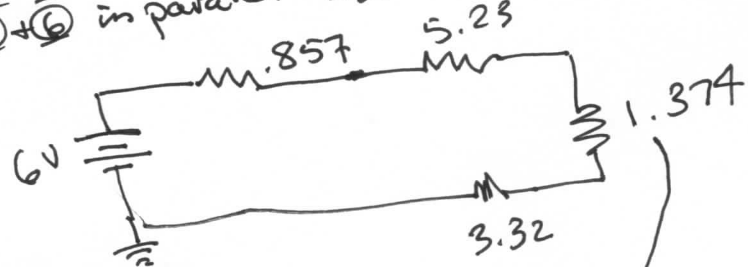


resistors in kΩ

$\boxed{\begin{matrix}2.74\\3.16\end{matrix}}$ target

① + ② in parallel .857
③ + ④ in series 5.23
⑤ + ⑥ in parallel 1.374



all series = 10.781

$V = IR$

$I = V/R = \frac{6}{10.781} = .557$

This is the current through 2.74 kΩ
it is .557 mA

Voltage across $V = IR$

$(.557)(2.74) = 1.53\ V$

current through 1.374 is .557

$V = IR = (.557)(1.374)$

$= \underline{.765\ \text{Volts}}$

also is voltage across 3.16kΩ

$V = IR \quad I = \frac{V}{R} = \frac{.765}{3.16} = .242$ mA