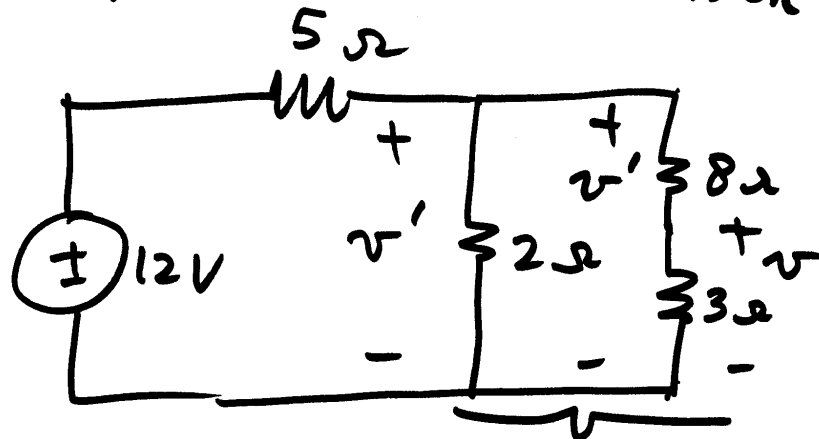


COMPOUND VOLTAGE DIVIDER



$$R_{EFF} = 2 // (8 + 3)$$

$$= \frac{2 \cdot 11}{2 + 11} = 1.69$$

1) SOLVE FOR v'

$$v' = \frac{R_{EFF}}{5 + R_{EFF}} 12V = \frac{1.69}{6.69} 12 = 3.03V$$

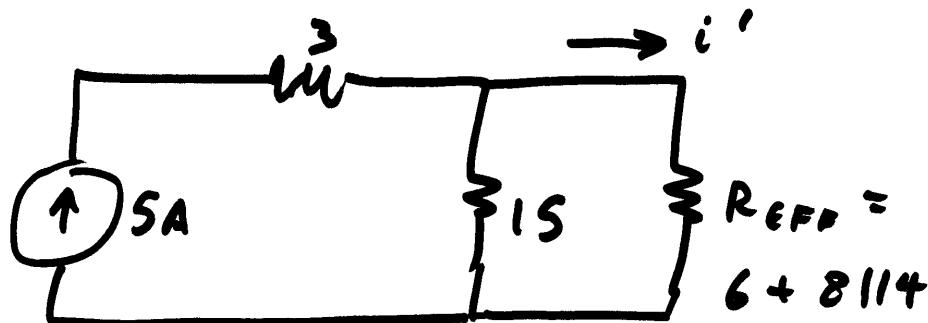
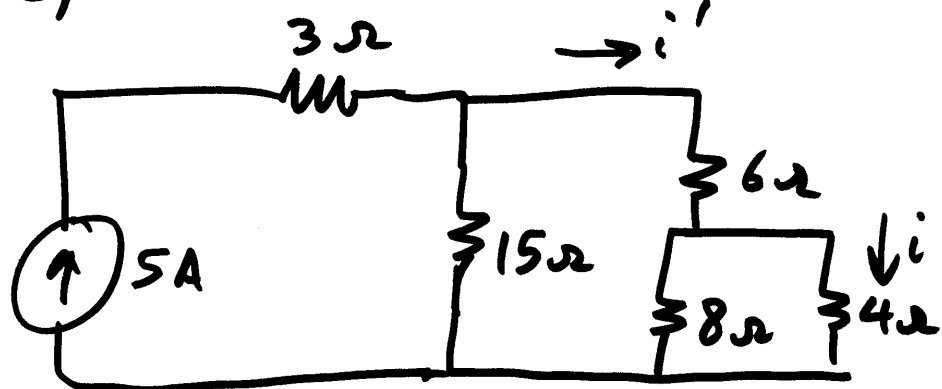
2) SOLVE FOR v FROM v'

$$v = \frac{3}{3 + 8} v' = \frac{3}{11} 3.03 = .83V$$

COMPOUND CURRENT DIVIDER

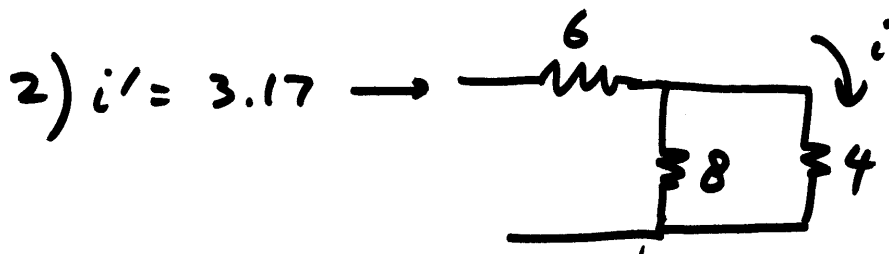
1) SOLVE FOR i'

2) SOLVE FOR i IN TERMS OF i'



$$1) i' = \frac{15}{15 + 8.667} (5A) = 3.17A$$

$$R_{EFF} = \frac{6 + 8 \parallel 4}{6 + 2.667} = 8.667$$



$$i = \frac{8}{8 + 4} 3.17 = 2.11A$$