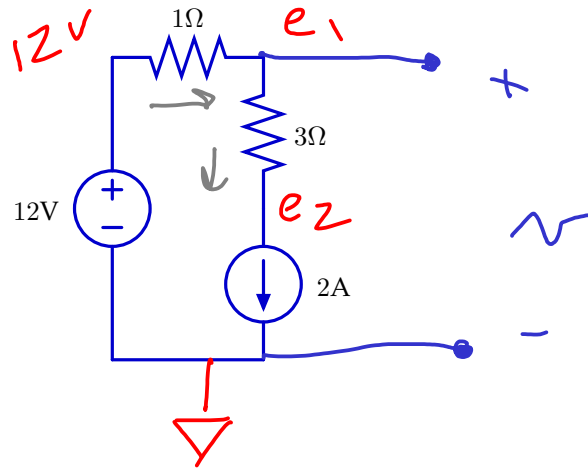


Name: _____

Kerberos Username: _____



$$\text{KCL @ } e_1: \frac{12V - e_1}{1\Omega} = \frac{e_1 - e_2}{3\Omega}$$

$$\text{KCL @ } e_2: \frac{e_1 - e_2}{3\Omega} = 2A$$

Solving: $e_1 - e_2 = 6V$

$$e_2 = e_1 - 6V \rightarrow 36V - 3e_1 = e_1 - (e_1 - 6V)$$

$$30V = 3e_1$$

$$e_1 = 10V = v$$

$$e_2 = 4V$$

note nonzero drop
across the current
source! $\rightarrow$