$\dot{\Phi}$

Current Source

Week 5 Cribsheet INTRO TO CIRCUITS

Key Definitions

· Voltage (V) is potential difference between two points [Unit: Volts (V)]

· Current (I) is flow rate of electrons [Unit: Amperes (A)]

· Resistance (R) is how much something limits current [Unit. Ohms (I)]

· Passive sign convention: the current arrow goes from + to - labels

Some Circuit Elements

Resister

Kirchoff's Laws

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Voltage Source

Kirchoff's Voltage Law (KVL): Sum of voltage drops across loop is zero

Kirchoff's current Law (KCL): Net current through any node is Zero