DC Voltage Divider Rule (22:06)

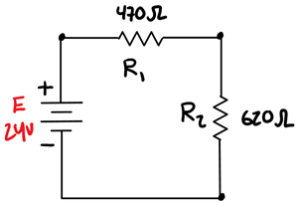
Given a series circuit consisting of a 12V source, a 200Ω, and a 400Ω resistor determine the voltage across each resistor using traditional series circuit analysis techniques.

Given a series circuit consisting of a 12V source, a 76Ω, and a 152Ω resistor determine the voltage across each resistor using traditional series circuit analysis techniques.

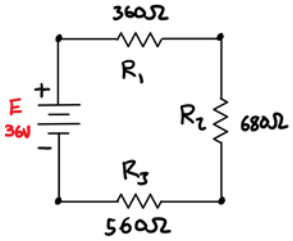
Write the general use formula for the voltage divider rule. Identify quantities inside the formula.

Use the voltage divider rule to solve for voltage across each resistor in the above examples. Comment on the advantages of the voltage divider over traditional series circuit analysis techniques.

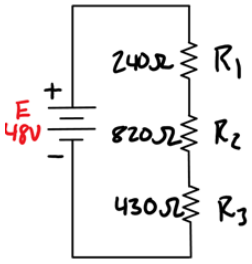
Use the voltage divider rule to solve for voltage across each resistor.



Use the voltage divider rule to solve for voltage across each resistor.



Use the voltage divider rule, Ohm's Law, and Kirchhoff's Voltage Law to solve for voltage across each resistor.



Differentiate between digital and analog signals.

Describe how a remote speed potentiometer is used to provide an analog input to a motor drive.

Given V_{BD} = 10V use the voltage divider rule to solve for voltage across R_2 and R_3.