

PROBLEM SOLVING EXERCISE # 2 -- HELPFUL HINTS

PART A & B

- Break down the original circuit by successively determining circuits with equivalent resistance values.
- Once you have a single equivalent resistance (R_{EQ}), use Ohm's Law to determine the circuit current.
- Work backward through the various equivalent circuits to determine branch currents and voltage drops.

PARTS C & D

- Draw a trajectory to describe the motion of the projectile.
- Identify all known and unknown values.
- Separate the problem in its X and Y components.
- Use the acceleration, velocity, and position equations to solve the problem.