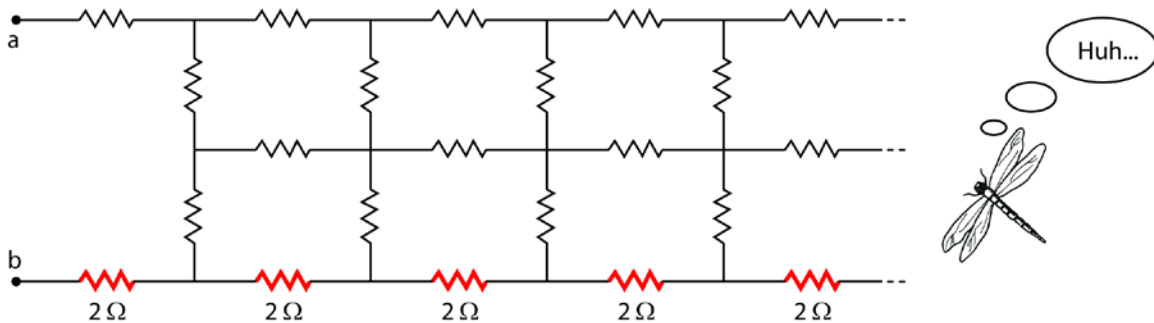# 2017 Physics Prize Problem
# Infinite Resistor Network



The resistor network shown above terminates at nodes *a* and *b* but continues to the right without end. Each resistor is a 1-Ω resistor, except along the bottom edge where there are 2-Ω resistors. An ohmmeter measures the resistance between nodes *a* and *b*. What is the measured resistance? *

*In the event of multiple correct solutions, the winning answer will be the one with the highest numerical precision.

## The Porter Prize and Andreas Prize