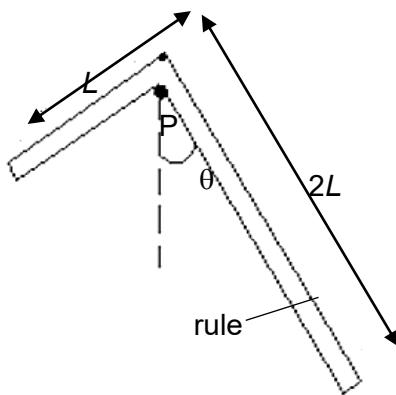


- 8** A right-angle rule hangs at rest from a peg P as shown below. The rule is uniform in density and cross-sectional area. One arm is of length L while the other arm is of length $2L$.



What is the angle θ at which the rule will hang in equilibrium?

A 8°

B 14°

C 42°

D 76°