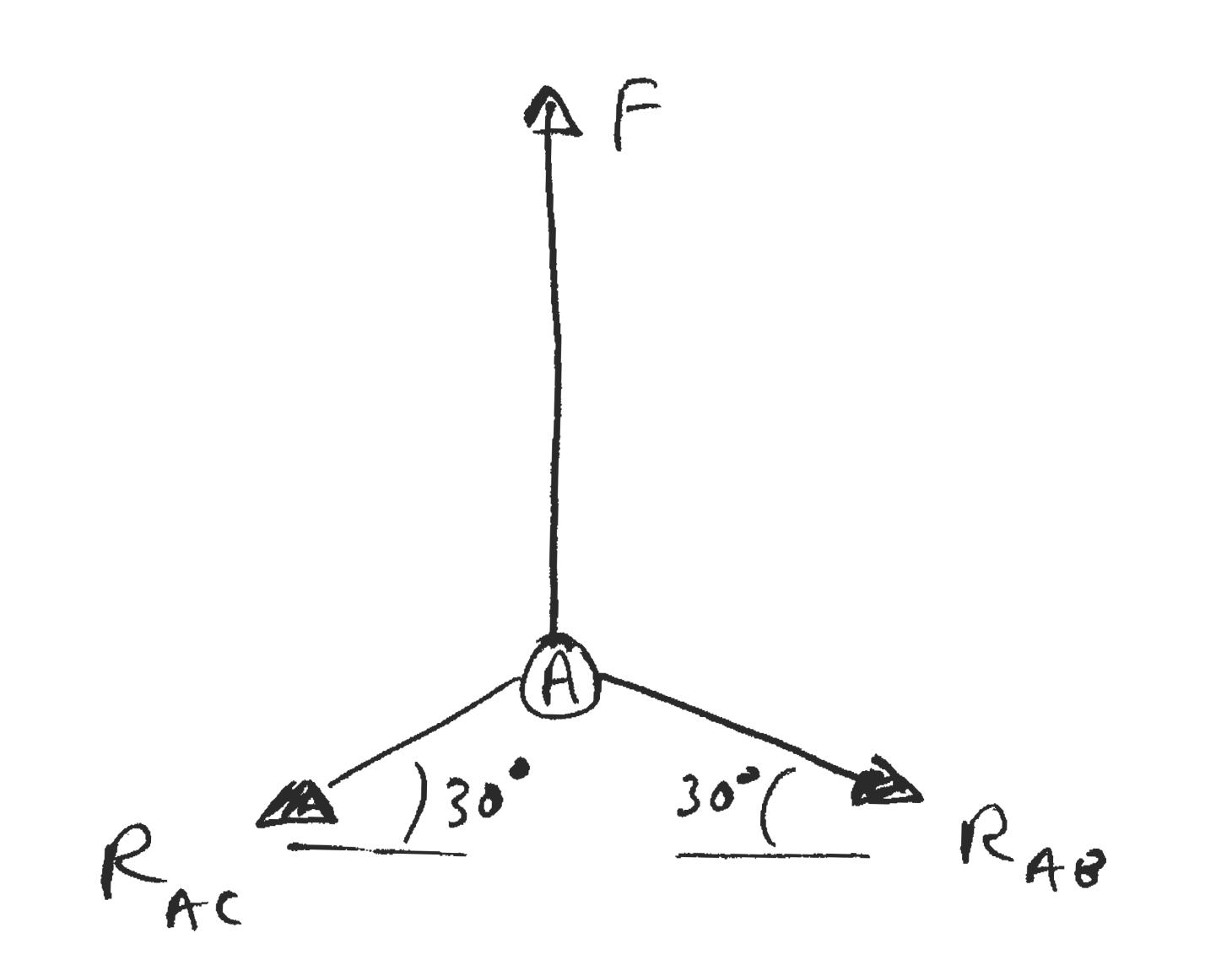
Problem MI Souhons



i) By symmetry RAC = RAB = R Apply equilibrium in yd"

FRACSin30 - RAS Sin 30° = 0

ii) :
$$S_{AC} = S_{AB} = R$$

iii) Each spring extends by $\delta = R/K$ Each spring can volute about its fixed end Springs remain attached at point A.

rew position of A

- Consistent with

extension and

restricted of A

A

A

A

Circular curcs

to represent robulting

of extended Spring

about anchor point

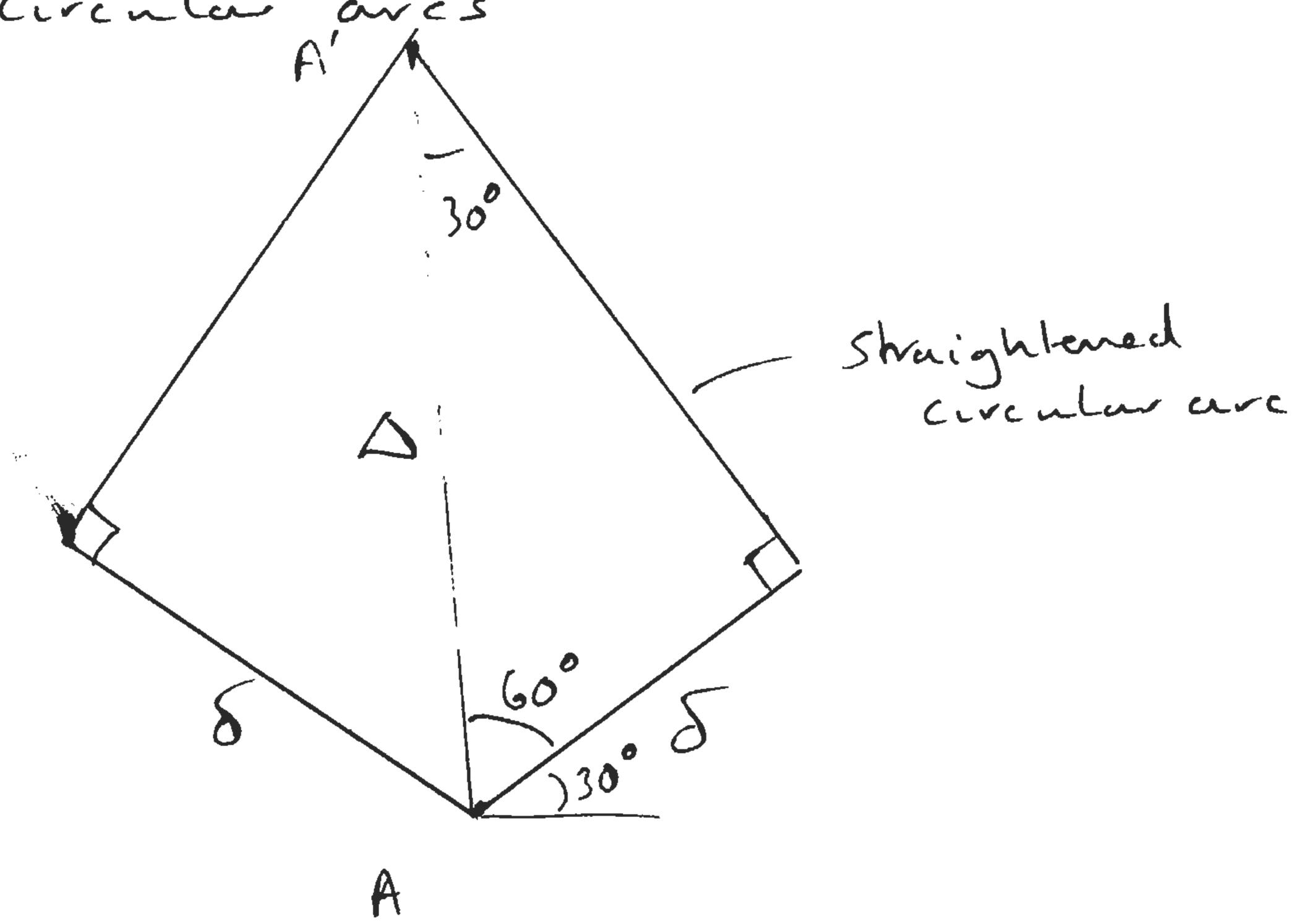
two springs

crigard

Position

R

Enlarge key regin, assure small deflections allow us to ignore circular arcs



verhical displacement of A to A = \(\rightarrow\)

$$\Delta \sin 30^\circ = \delta$$

$$\Delta = 2 \delta = 2F$$

$$K$$