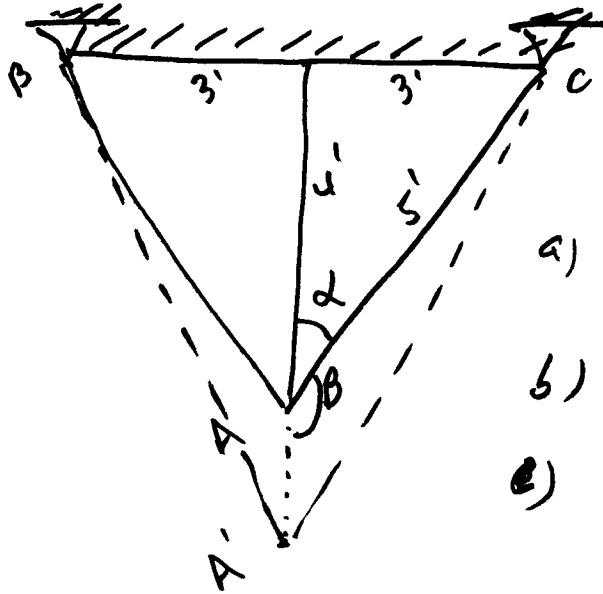


Hints to solving problem 4.16.

1. determine the movement of point A.



- a) determine the angle  $\alpha$
- b) compute  $\beta$
- c) compute the length of  $CA'$  knowing the stress  $\rightarrow$  strain  $\rightarrow$  elongation of that member
- d) resolve the triangle  $CBA'$  using the law of sines.
- e) establish  $AA'$

2) Add to  $AA'$  the elongation of  $AB$ .

$$\therefore \delta_B = \delta_{B/A} + AA'$$

The answer should be 0.281 "