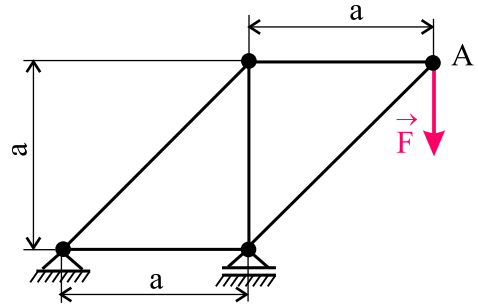


### Problem 421

Determine the horizontal and vertical displacements of the point A of the strut frame in the figure. All the bars are of the same cross section  $S = \text{const.}$  and are made of the same material ( $E = \text{const.}$ ).



tension

systems with bars