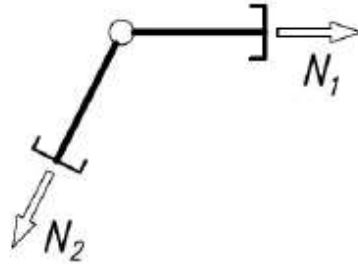


Number of Zero force members in Trusses

1. If only two members join in unloaded node

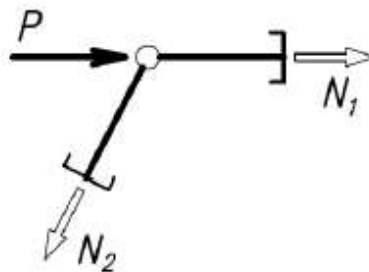
axial forces in both members equal zero.



$$N_1 = N_2 = 0$$

2. If only two members join in node loaded with force parallel to one of them

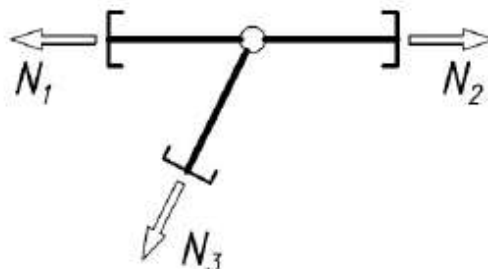
axial force in the second member equals zero.



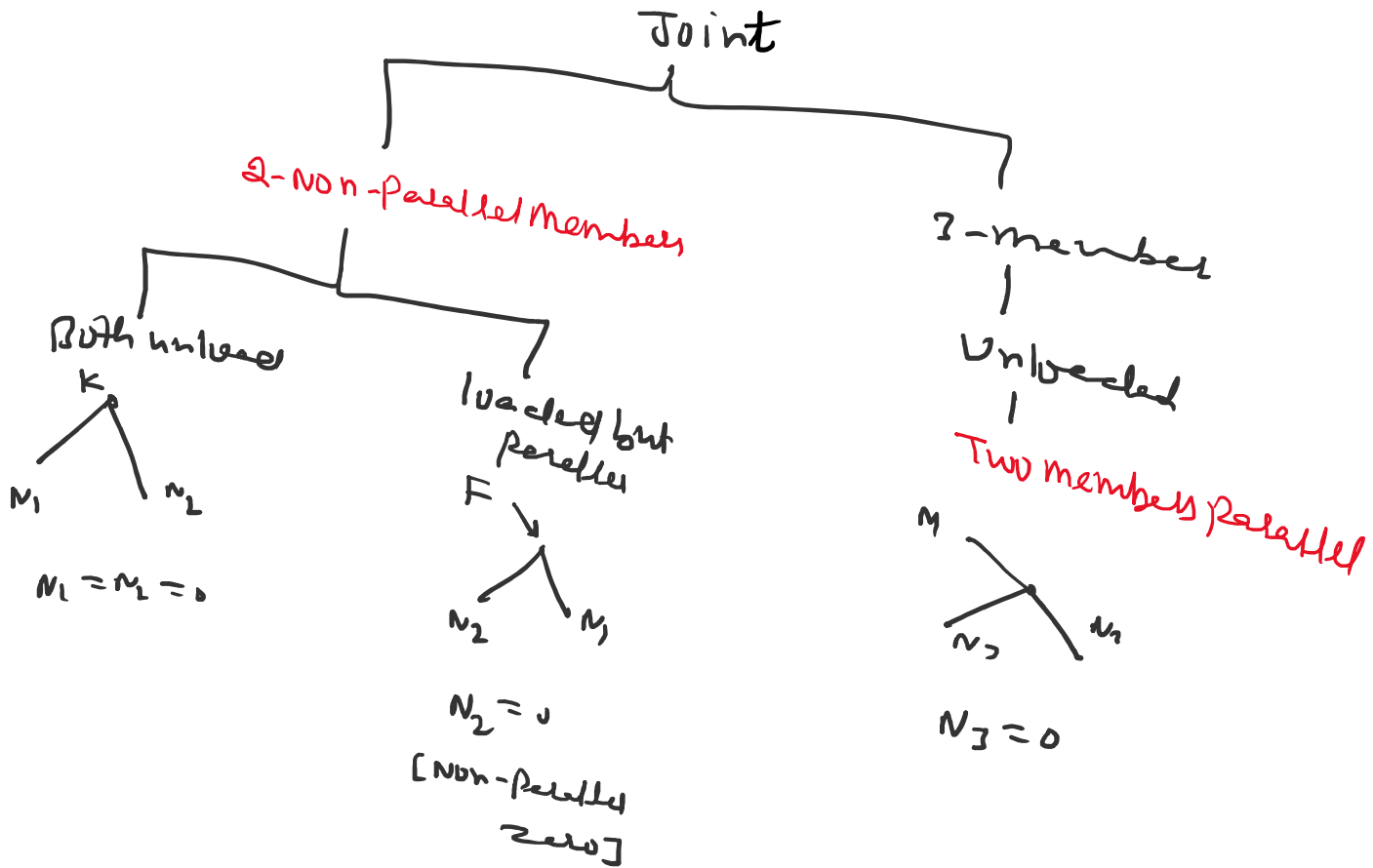
$$N_2 = 0$$

3. If three members join in unloaded node and two of those members are parallel

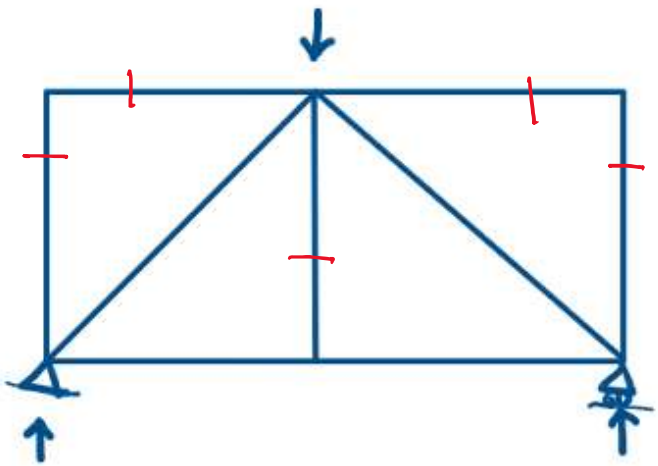
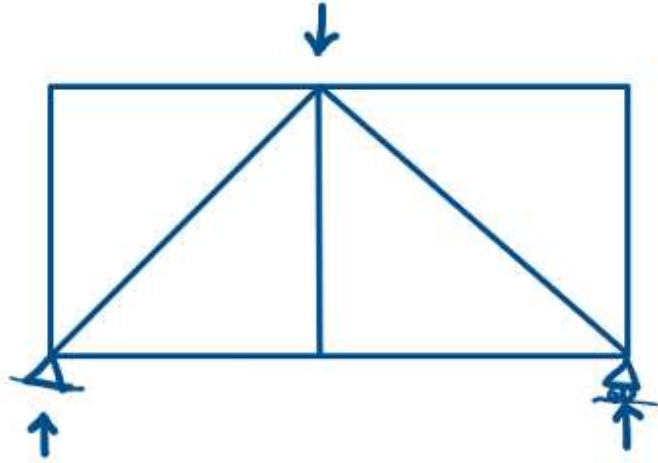
axial force in the third member equals zero.



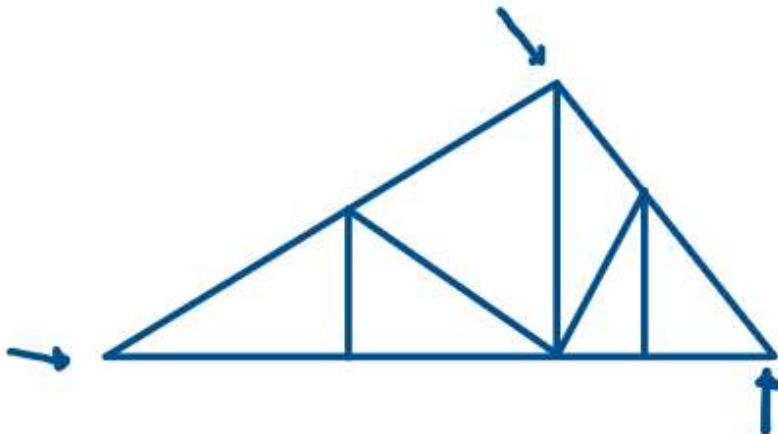
$$N_3 = 0$$

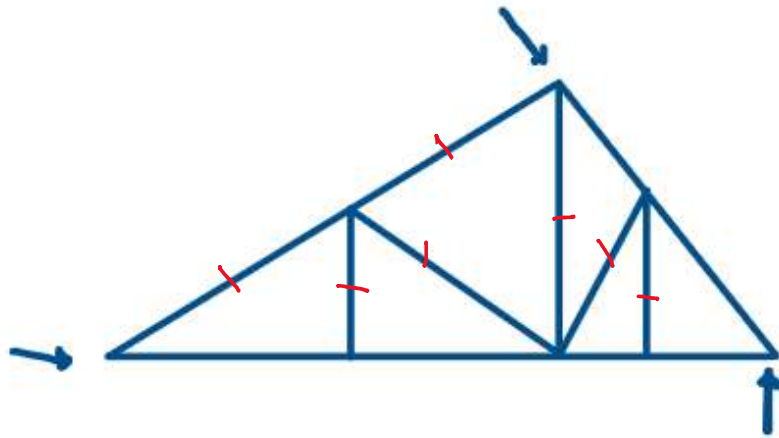


Find the number of zero force members:

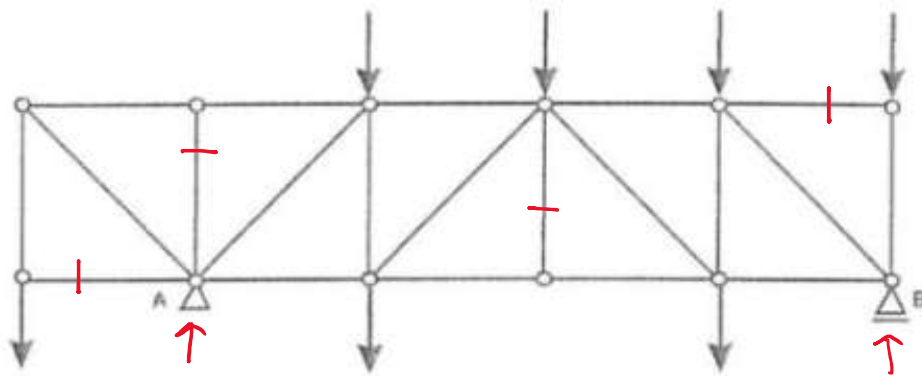
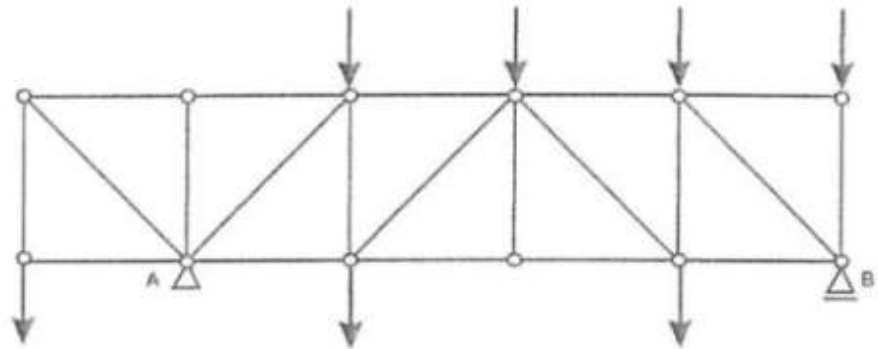


Find the number of zero force members





3. Please find „zero” members in truss presented below.



If you need online tutoring in Statics and Mechanics, you can book your class at

<https://civilthinking.com/book-online-class>.

Our interactive, 1-on-1 sessions are designed so you do not need extra homework afterward. These Statics sessions are perfect for students looking to pass university tests, quizzes, and final exams. We welcome students from all countries, and you can easily choose the best time based on your local time zone.