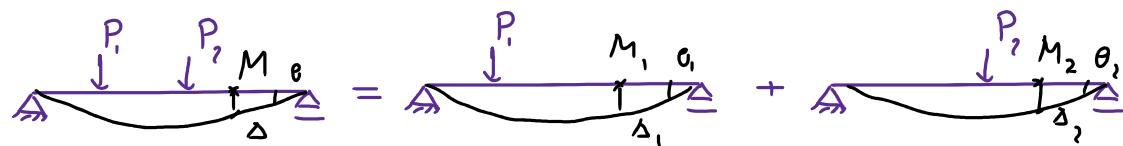


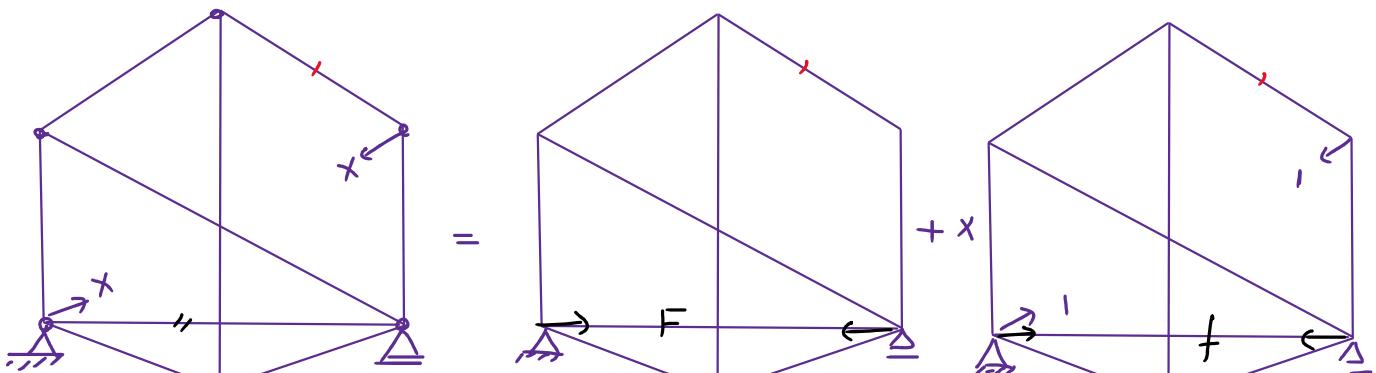
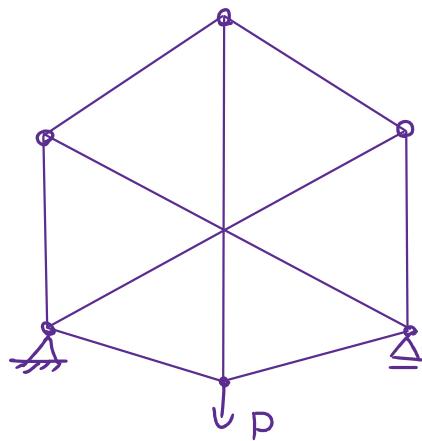
روش عضو جایزه (روشن هنبرگ)

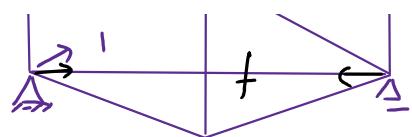
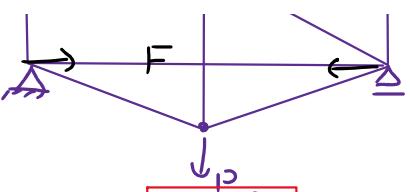
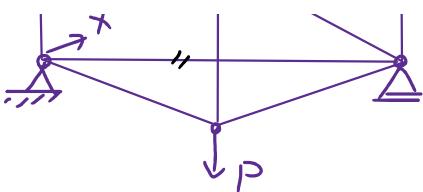
روش عضو جایزه در سال ۱۸۷۸ برتر نیلز چاه بیان کرد هنبرگ اراده نداشت. این روش بر اصل جمع آثار ترا (اصل سوپر بزرگی) است.

اصل جمع آثار ترا (سوپر بزرگی)



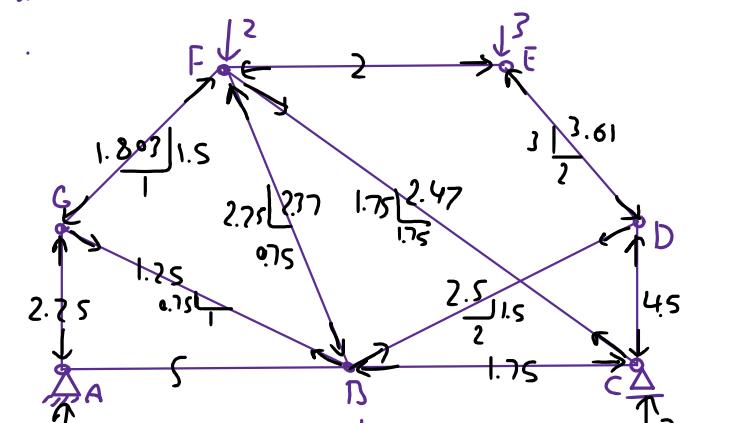
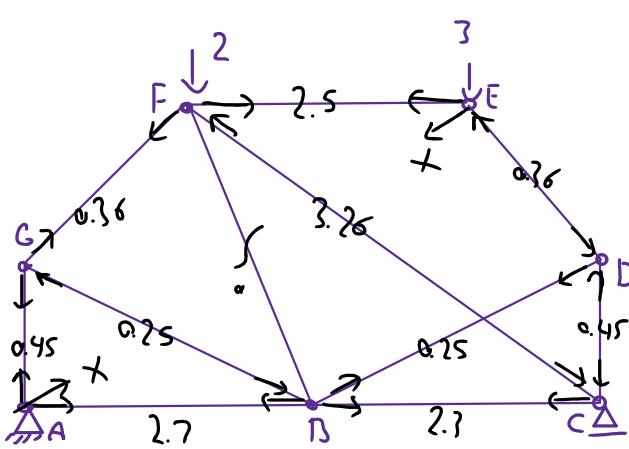
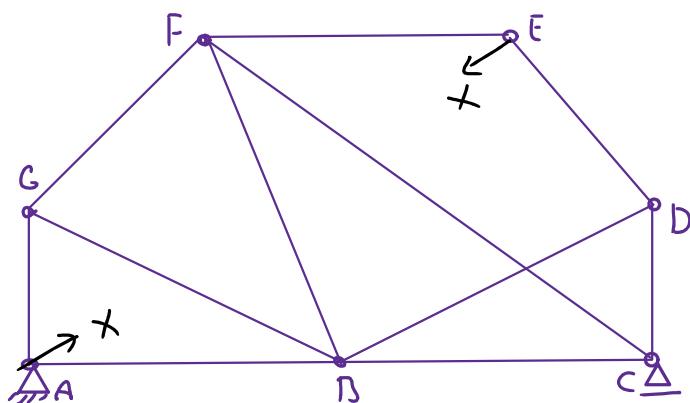
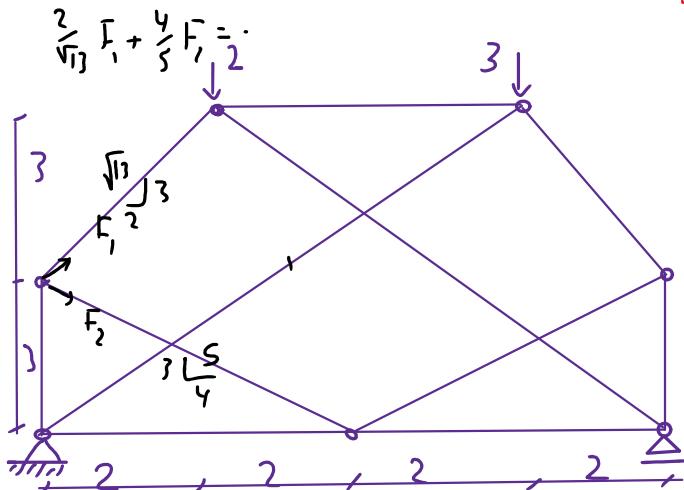
$$\left\{ \begin{array}{l} M = M_1 + M_2 \\ \Delta = \Delta_1 + \Delta_2 \\ v = v_1 + v_2 \\ \vdots \end{array} \right. \quad * \text{ فقط در محدوده خواهد صحت داشت.}$$





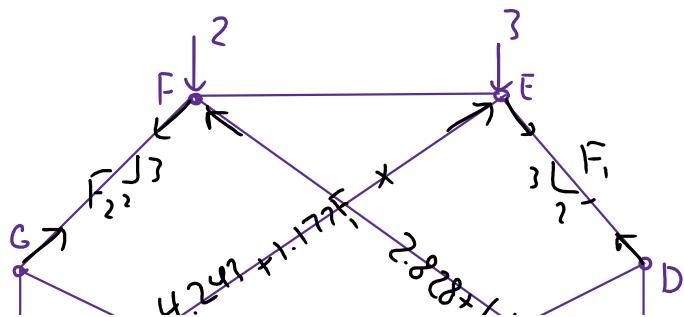
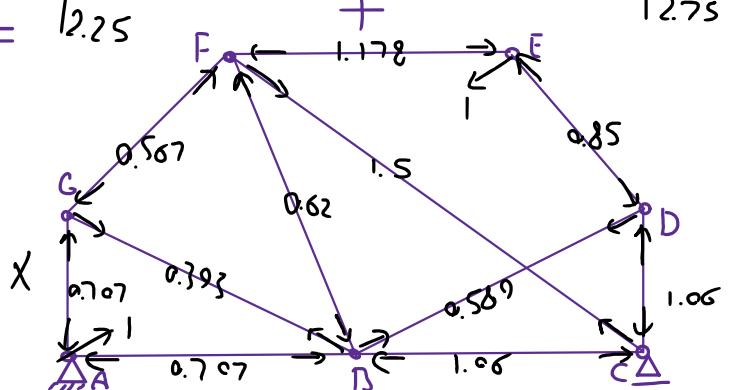
$$F_x + f = 0 \rightarrow x = -\frac{F}{f}$$

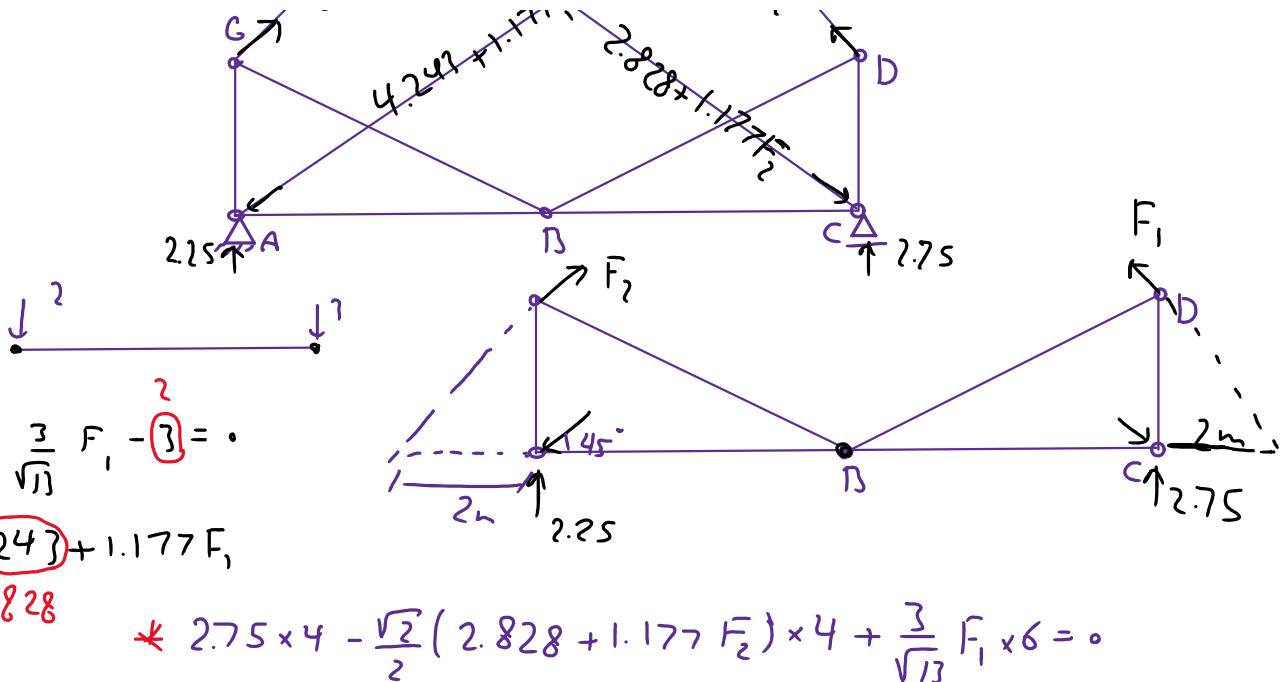
مثال:



$$-2.37 + x(-0.62) = 0$$

$$x = -3.823$$





$$\sum M_G = 0$$

$$2.25 \times 4 - \frac{\sqrt{2}}{2}(4.247 + 1.177F_1) \times 4 + \frac{3}{\sqrt{13}}F_1 \times 6 = 0$$

$$\begin{cases}
 4.992F_2 - 3.329F_1 = 3.001 \\
 -3.329F_2 + 4.992F_1 = -3.001
 \end{cases}
 \rightarrow
 \begin{aligned}
 (-3.329 + 4.992)F_1 &= 3.001(3.329 - 4.992) \\
 F_1 &= -0.361
 \end{aligned}$$

$$F_2 = 0.361$$