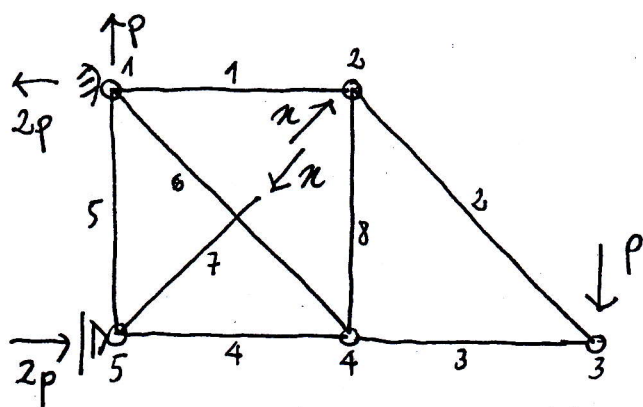
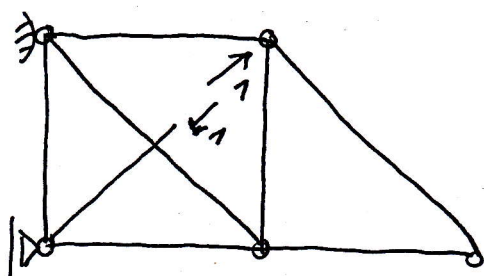


A2.



SD



SISTEMA AUTOEQUILIBRATO

| ASTA | $l$         | $N^F$        | $N^x$               | $P$          |
|------|-------------|--------------|---------------------|--------------|
| 1    | $l$         | $\sqrt{2}/2$ | $\sqrt{2}/2 x + P$  |              |
| 2    | $l\sqrt{2}$ | 0            | 0                   | $+P\sqrt{2}$ |
| 3    | $l$         | 0            | 0                   | $-P$         |
| 4    | $l$         | $\sqrt{2}/2$ | $\sqrt{2}/2 x - 2P$ |              |
| 5    | $l$         | $\sqrt{2}/2$ | $\sqrt{2}/2 x$      | 0            |
| 6    | $l\sqrt{2}$ | -1           | $-x$                | $P\sqrt{2}$  |
| 7    | $l\sqrt{2}$ | -1           | $-x$                | 0            |
| 8    | $l$         | $\sqrt{2}/2$ | $\sqrt{2}/2 x$      | $-P$         |

$$\Delta_{V2} = 1 \cdot \Delta_{V2} = 0$$

$$\Delta_{V1} = \frac{1}{EA} \left[ \frac{\sqrt{2}}{2} \left( \frac{\sqrt{2}}{2} x + P \right) l + \frac{\sqrt{2}}{2} \left( \frac{\sqrt{2}}{2} x - 2P \right) l + \frac{\sqrt{2}}{2} \left( \frac{\sqrt{2}}{2} x \right) l - 1 \left( -x + P\sqrt{2} \right) l\sqrt{2} + \right. \\ \left. - 1 \left( -x \right) l\sqrt{2} + \frac{\sqrt{2}}{2} \left( \frac{\sqrt{2}}{2} x - P \right) l \right] = 0$$

$$\frac{x}{2} + \frac{P\sqrt{2}}{2} + \frac{x}{2} - P\sqrt{2} + \frac{x}{2} + x\sqrt{2} - 2P + x\sqrt{2} + \frac{x}{2} - \frac{P\sqrt{2}}{2} = 0$$

$$2x + 2x\sqrt{2} = P\sqrt{2} + 2P$$

$$2x = P \frac{(2 + \sqrt{2})}{1 + \sqrt{2}}$$