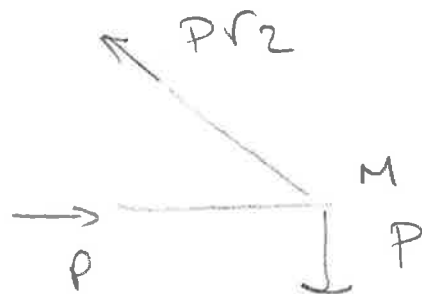




1- No. M

$$N_{17} = P\sqrt{2}$$

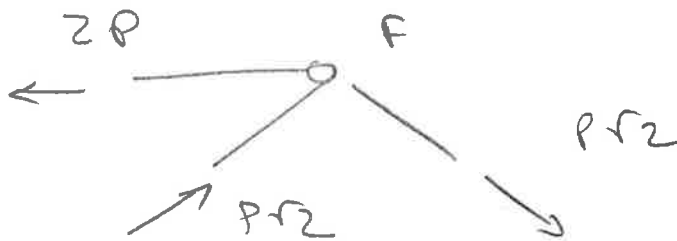
$$N_{23} = -P$$



No. F

$$N_5 = 2P$$

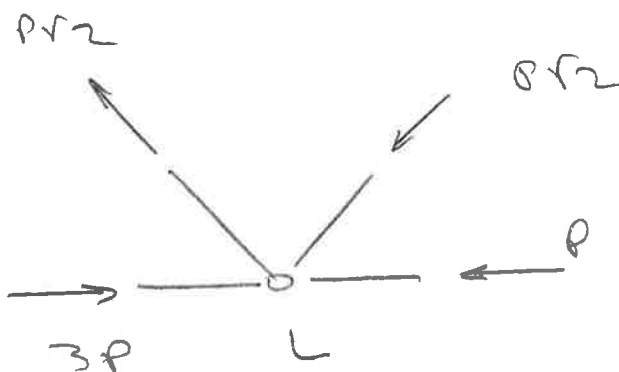
$$N_{16} = -P\sqrt{2}$$



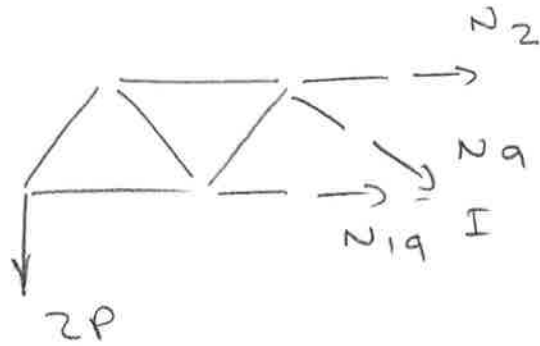
$$N_{15} = P\sqrt{2}$$

No. L

$$N_{22} = -3P$$



2-



$$\sum M_{\perp} = 0 \quad 2P \cdot 4a = N_2 a$$

$$N_2 = 8P$$

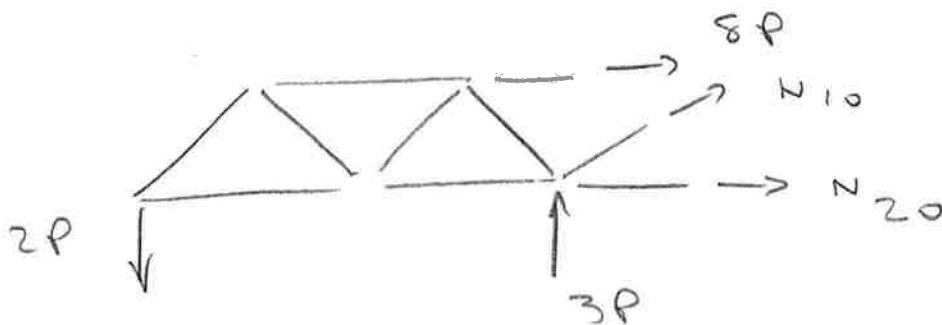
$$\sum Y = 0 \quad -2P - N_9 \frac{\sqrt{2}}{2} = 0$$

$$N_9 = -2P\sqrt{2}$$

$$\sum X = 0 \quad N_2 + N_9 \frac{\sqrt{2}}{2} + N_{19} = 0$$

$$8P - 2P + N_{19} = 0$$

$$N_{19} = -6P$$



$$\sum Y = 0 \quad -2P + N_{10} \frac{\sqrt{2}}{2} + 3P = 0$$

$$N_{10} = -P\sqrt{2}$$

$$\sum X = 0 \quad 8P + N_{10} \frac{\sqrt{2}}{2} + N_{20} = 0$$

$$8P - P\sqrt{2} \frac{\sqrt{2}}{2} + N_{20} = 0$$

$$N_{20} = -7P$$

1- $4 \times 0,375$

2- $4 \times 0,375$

$$N_{15} = P\sqrt{2}$$

$$N_{16} = -P\sqrt{2}$$

$$N_{22} = -3P$$

$$N_{23} = -P$$

$$N_9 = -2\sqrt{2}P$$

$$N_{10} = -P\sqrt{2}$$

$$N_{14} = -6P$$

$$N_{20} = -7P$$