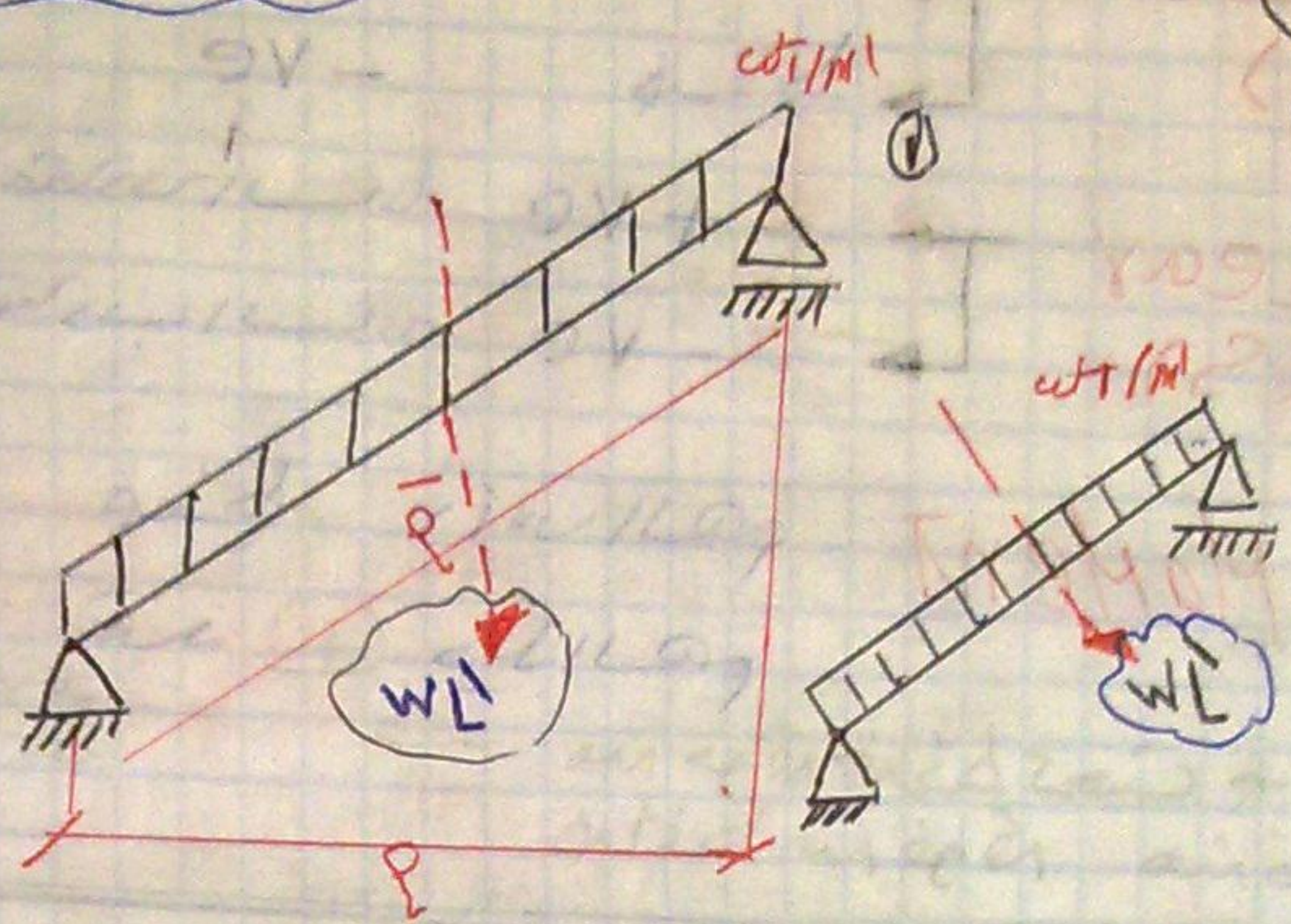
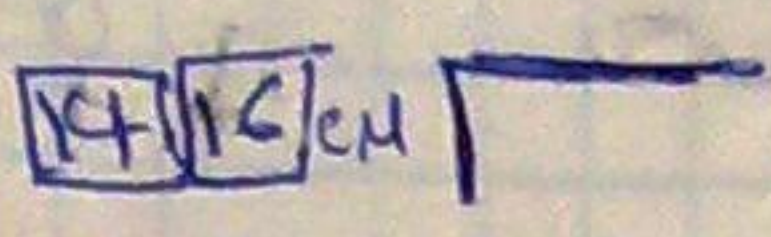


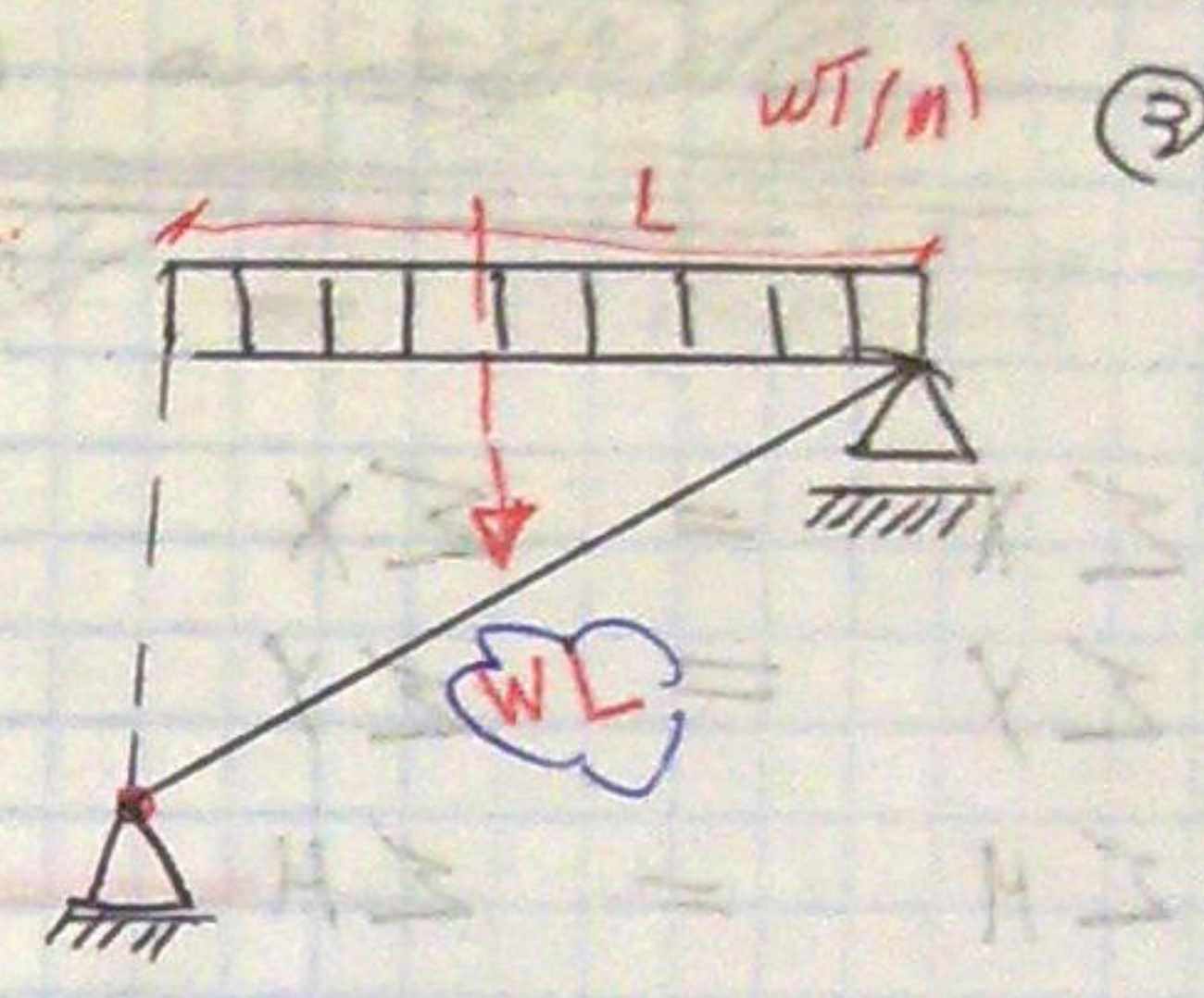
Inclined Beams

7/10/2018
6

$$W_1 = WL$$



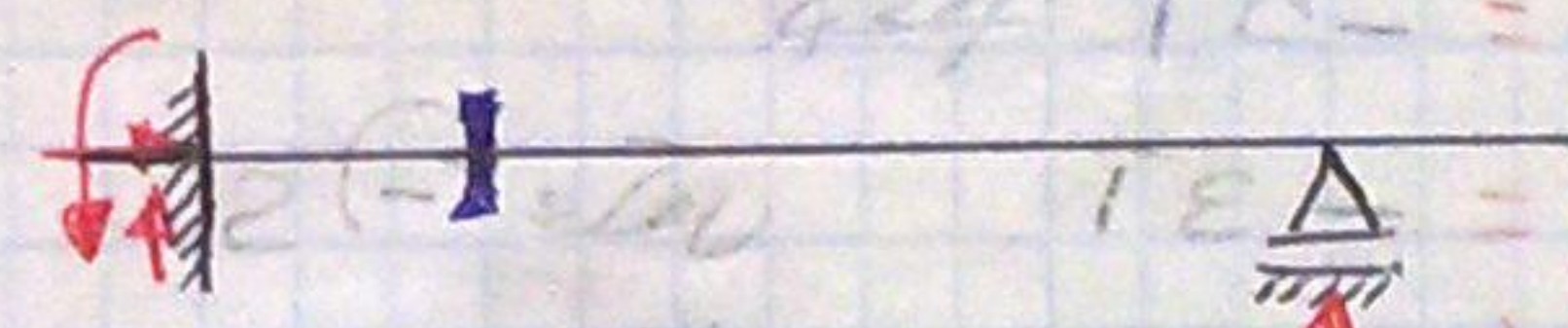
العلا يتوزع على الافقى



Internal Forces:

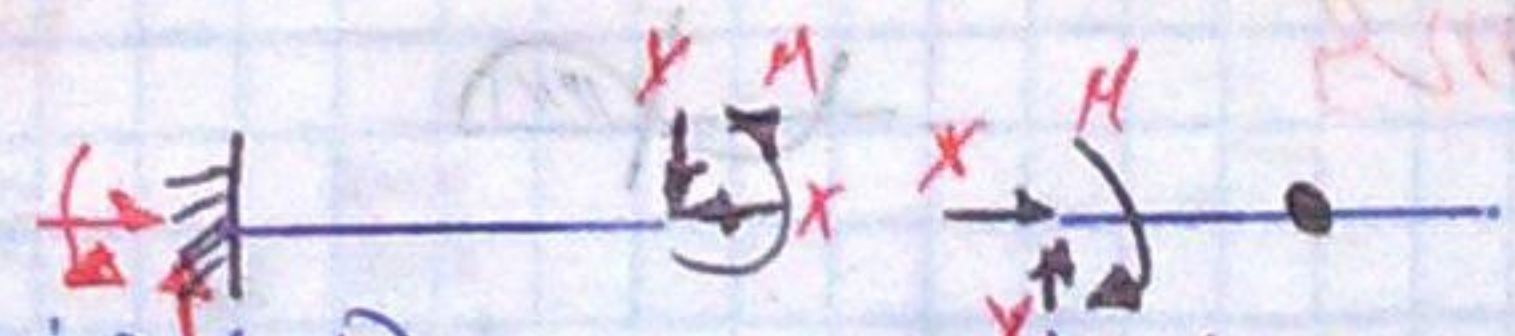
القوة الداخلية

$$\sum X \text{ \& } \sum Y \text{ \& } \sum M$$



قطع وقطع

تظهر القوة الداخلية



انقسام لجزء + قطع

عند فصل جزء من المنشأ نجد د د فصل (x, y) بالاضافة الى الخزم

Normal Force (N)

shear Force (S)

$$\sum X = 0$$

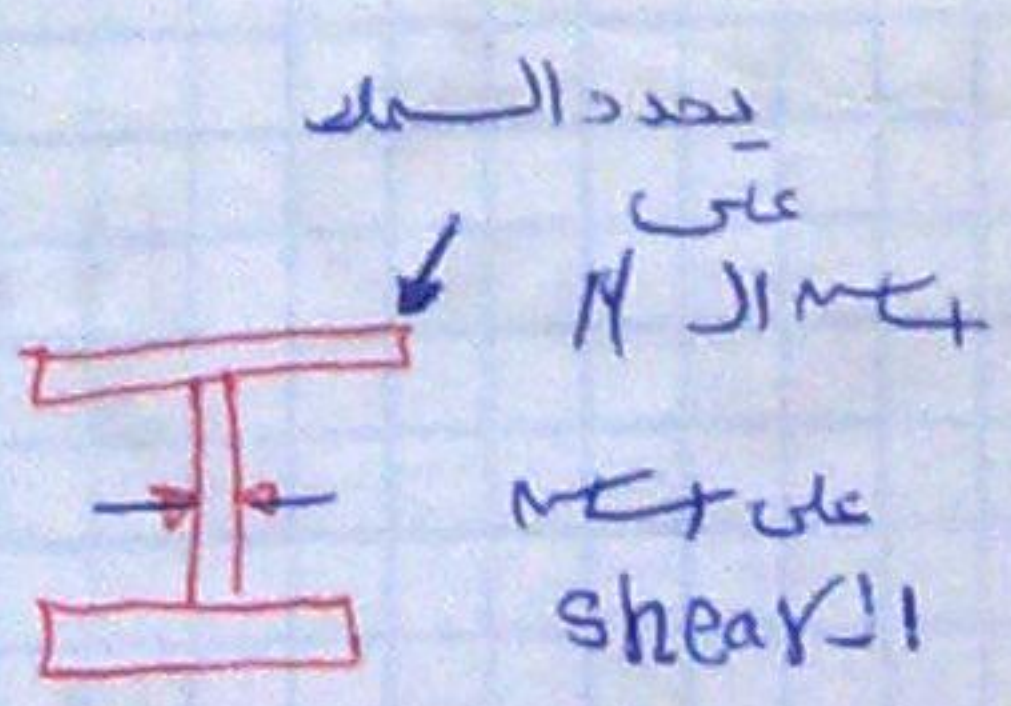
$$N = \square$$

$$\sum Y = 0$$

$$S = \square$$

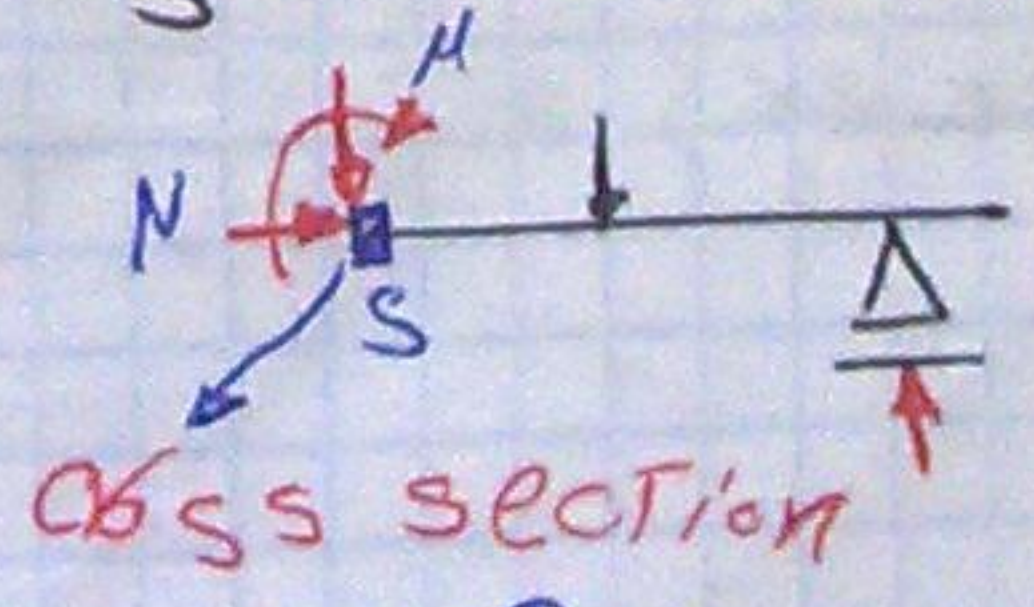
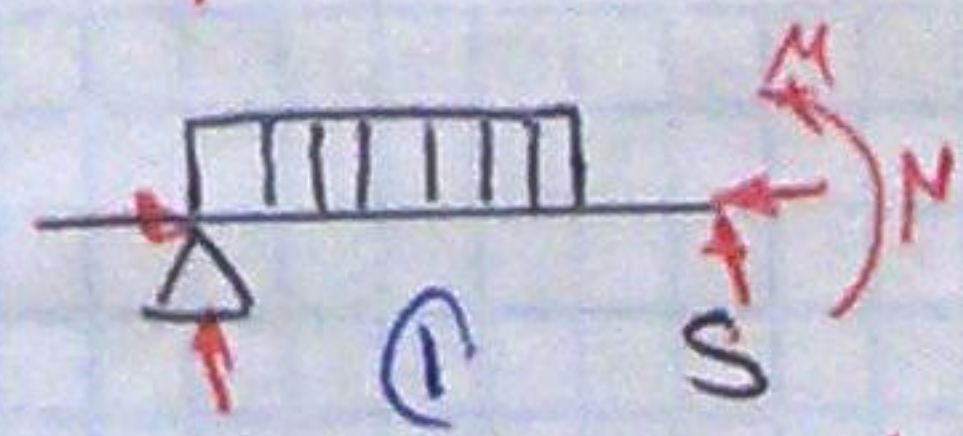
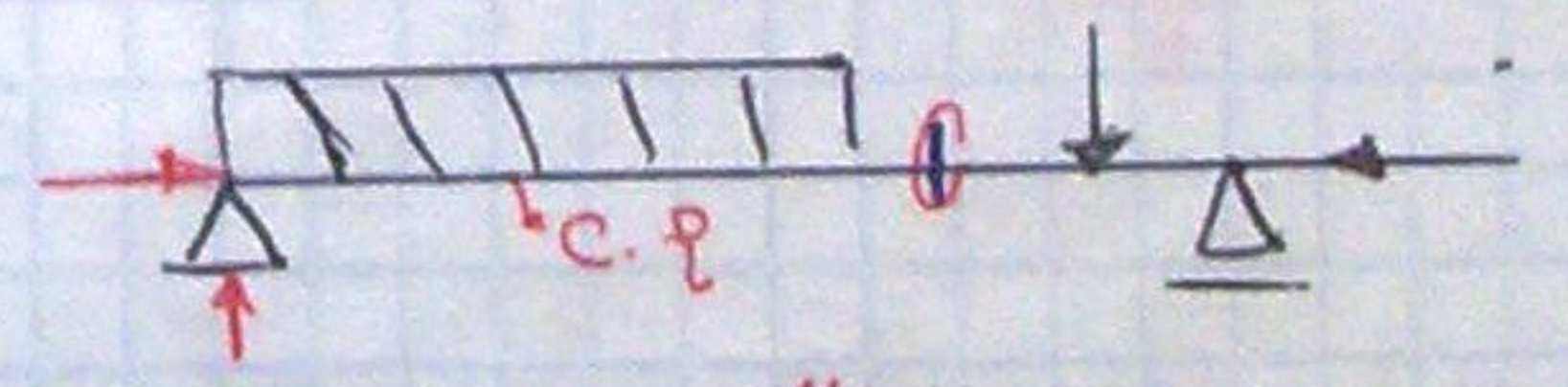
$$\sum M = 0$$

$$M = \square$$



والجزء الاخر

نفس الاجابة



cross section

Normal (N)

Shear (S)

Moment

+ve
-ve

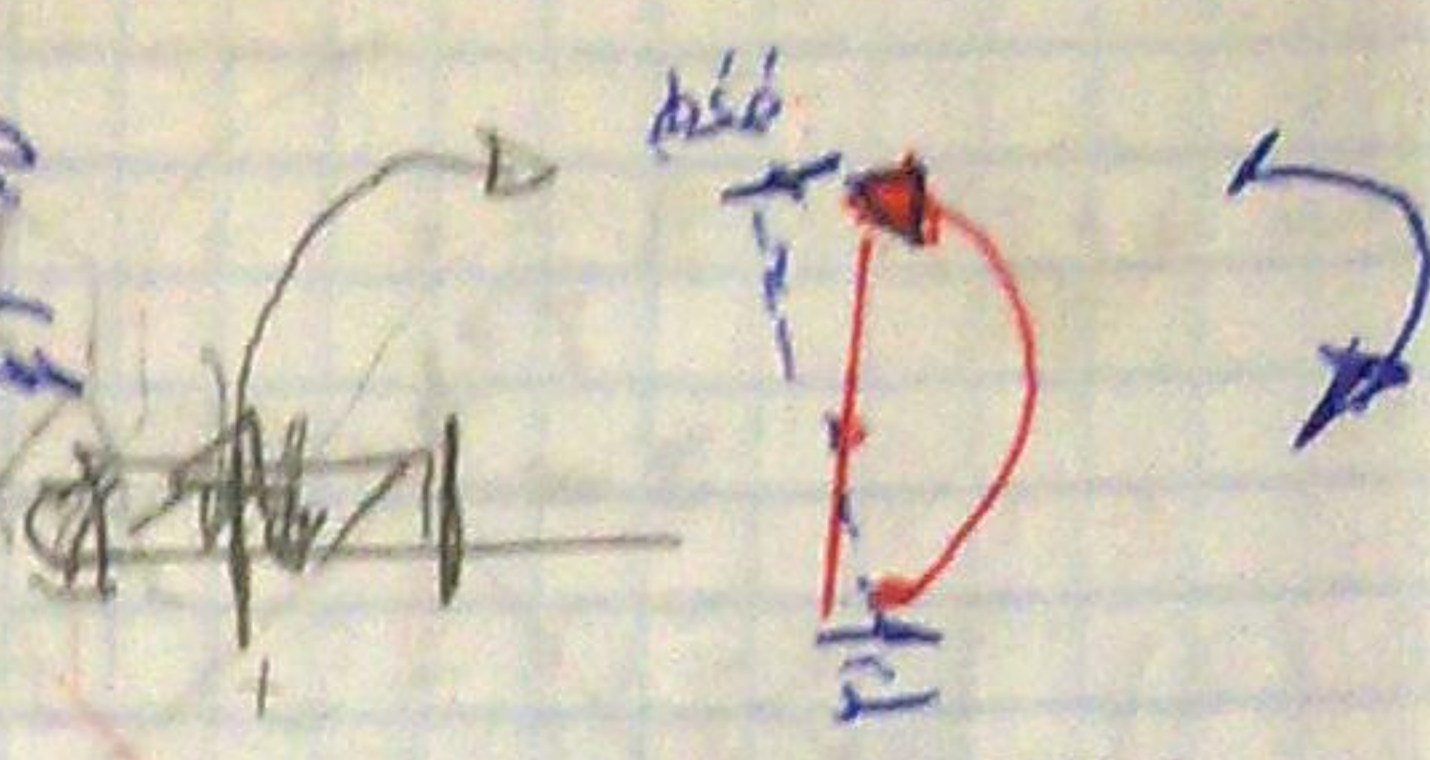
+ve
-ve

+

-

من فوق القوة
من تحت القوة

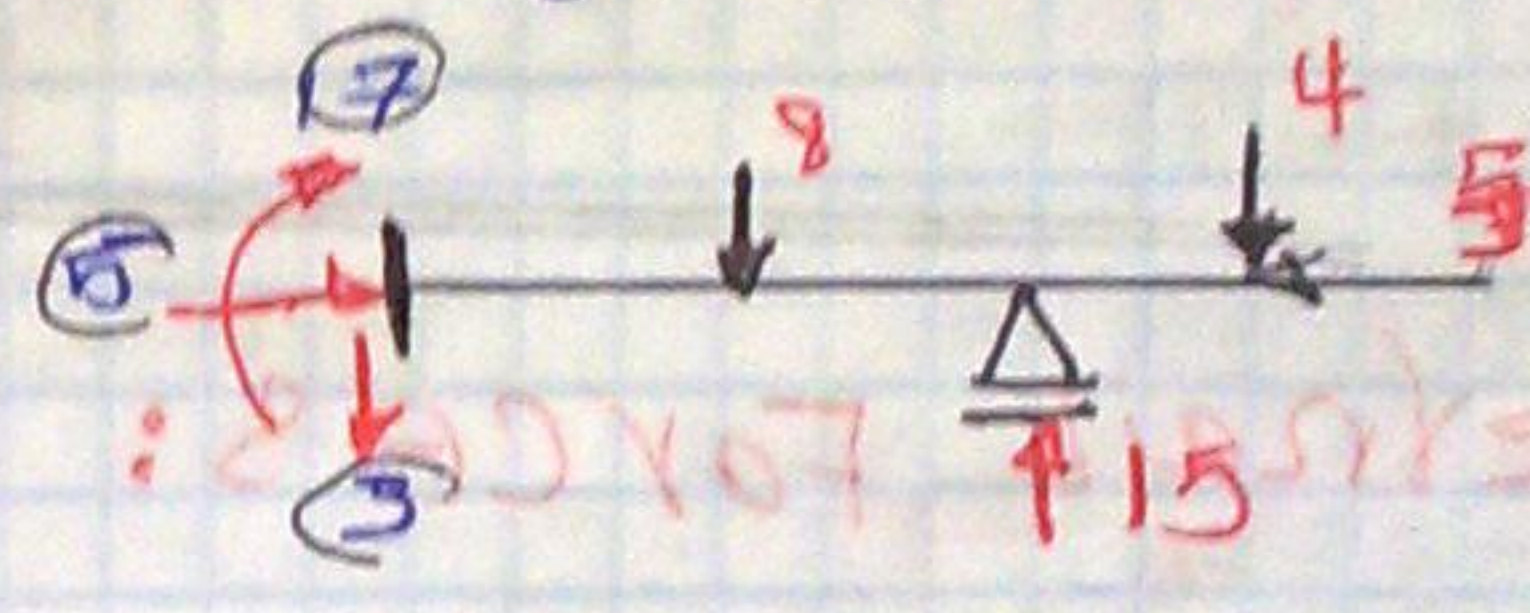
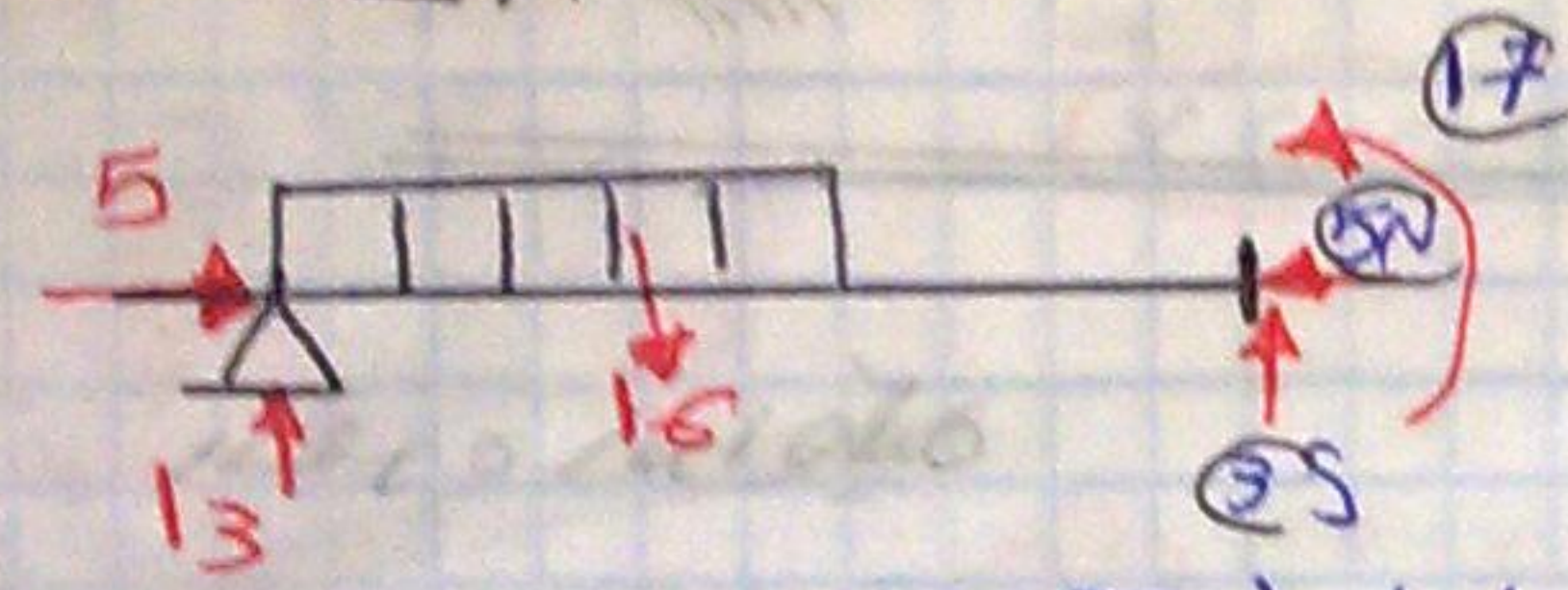
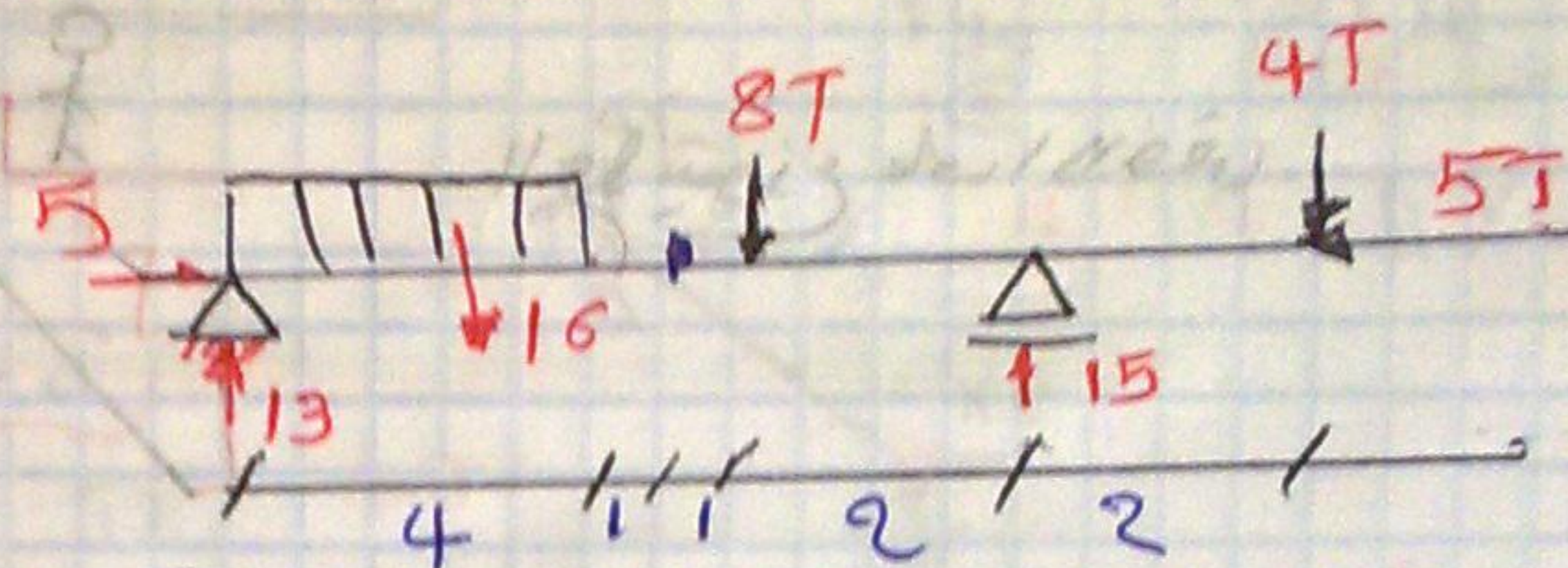
من فوق القوة
من تحت القوة



$$\sum X = \sum X$$

$$\sum Y = \sum Y$$

$$\sum M = \sum M$$

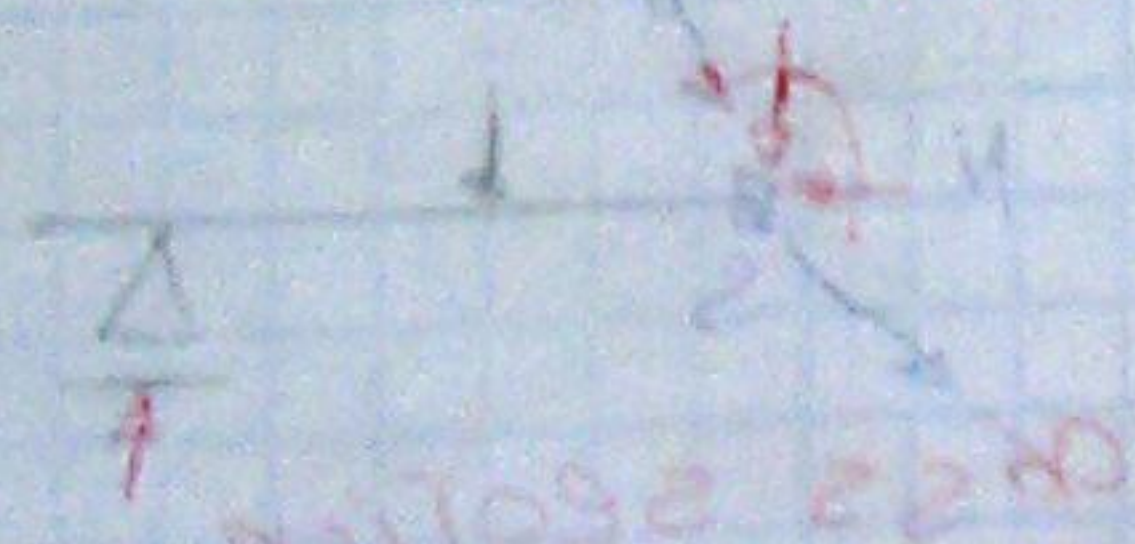
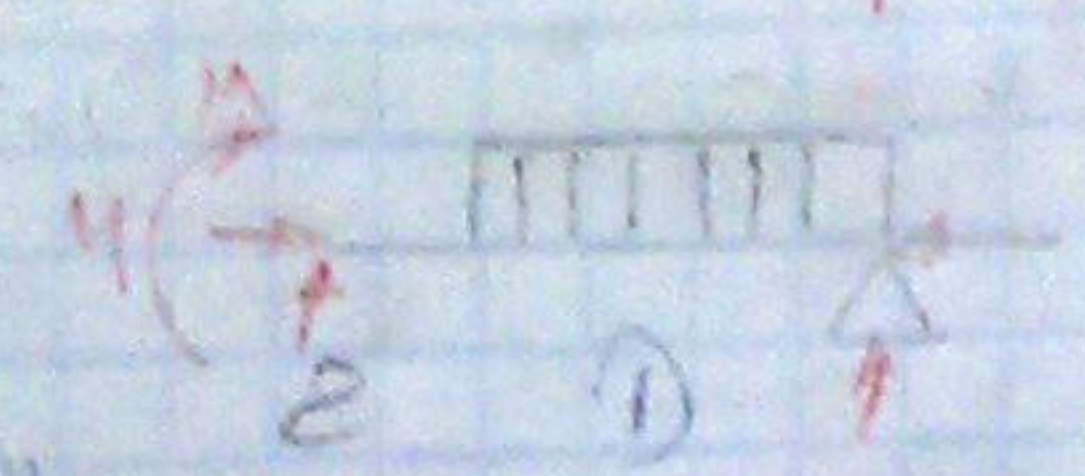
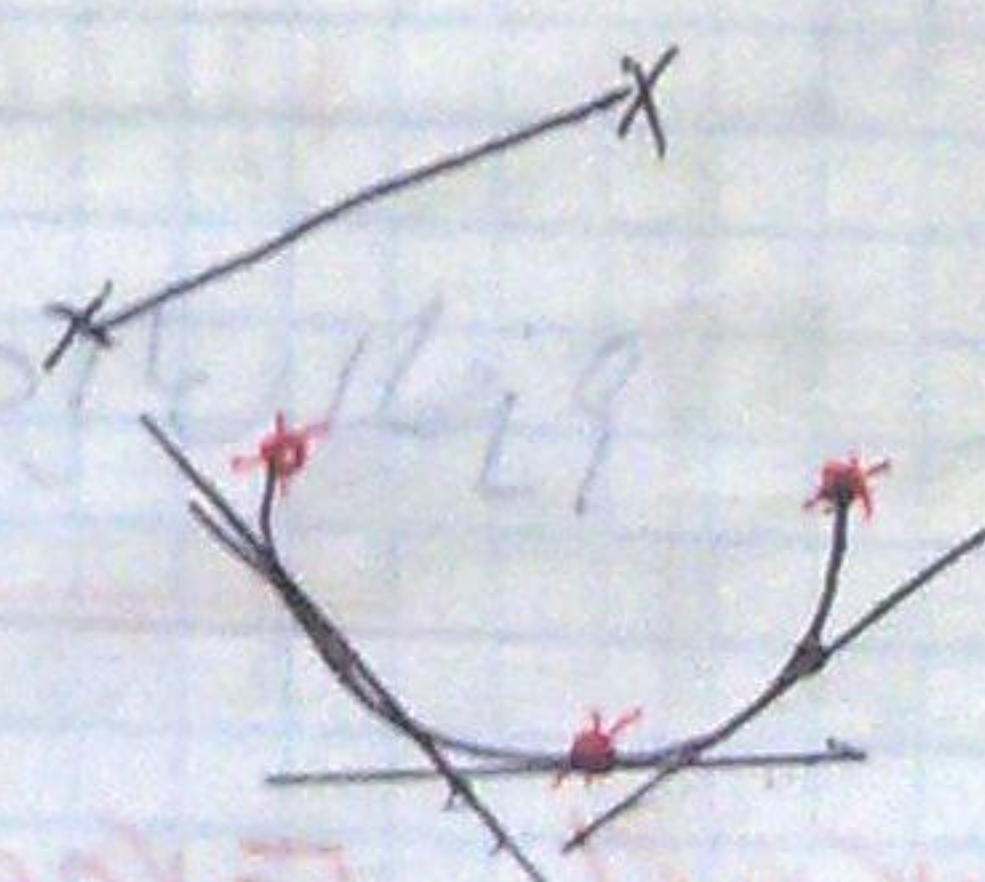


$$N = -5T$$

$$S = -3T$$

$$M = 17$$

diagrams



$$\sum X = 0$$

$$\sum Y = 0$$

$$\sum M = 0$$

$$\sum H = 0$$

$$\sum V = 0$$