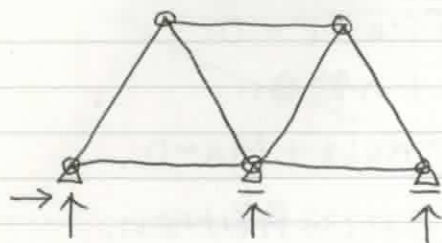


安定、不安定を判別し、不静定次数を求めよ。



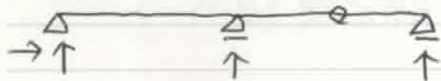
$$反力数 m = 4$$

$$部材数 S = 7$$

$$剛接合部材数 r = 0$$

$$節点数 k = 5$$

$$n = 4 + 7 + 0 - 2 \times 5 = 1 \text{ (安定)}$$



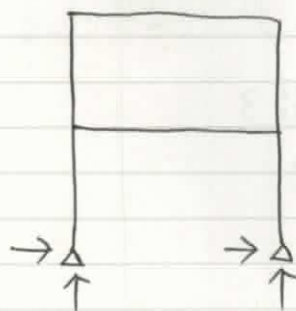
$$m = 4$$

$$S = 3 \leftarrow \text{節点を7なく部分の数}$$

$$r = 1 \leftarrow \text{節点で折れ曲がりを許さない数}$$

$$k = 4$$

$$n = 4 + 3 + 1 - 2 \times 4 = 0 \text{ (安定)}$$



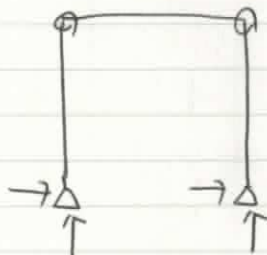
$$m = 4$$

$$S = 6$$

$$r = 6$$

$$k = 6$$

$$n = 4 + 6 + 6 - 2 \times 6 = 4 \text{ (安定)}$$



$$m = 4$$

$$S = 3$$

$$r = 0$$

$$k = 4$$

$$n = 4 + 3 + 0 - 2 \times 4 = -1 \text{ (不安定)}$$