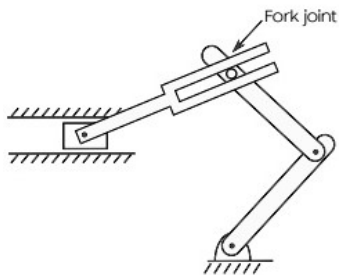


## Degree of freedom for planar mechanism

### 1. Determine the degree of freedom of the planar mechanism



#### Solution:

Number of link  $n = 5$

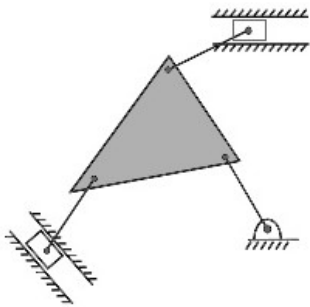
Number of turning pair = 3

Number of sliding pair = 2

$$F = 3(n - 1) - 2j$$

$$F = 3(5 - 1) - 2 \times 5 = 12 - 10 = 2$$

### 2. Determine the degree of freedom of the planar mechanism



#### Solution:

Number of link  $n = 7$

Number of sliding pair = 2

Number of turning pair = 6

$$F = 3(n - 1) - 2j = 3 \times 6 - 2 \times 8 = 18 - 16 = 2$$