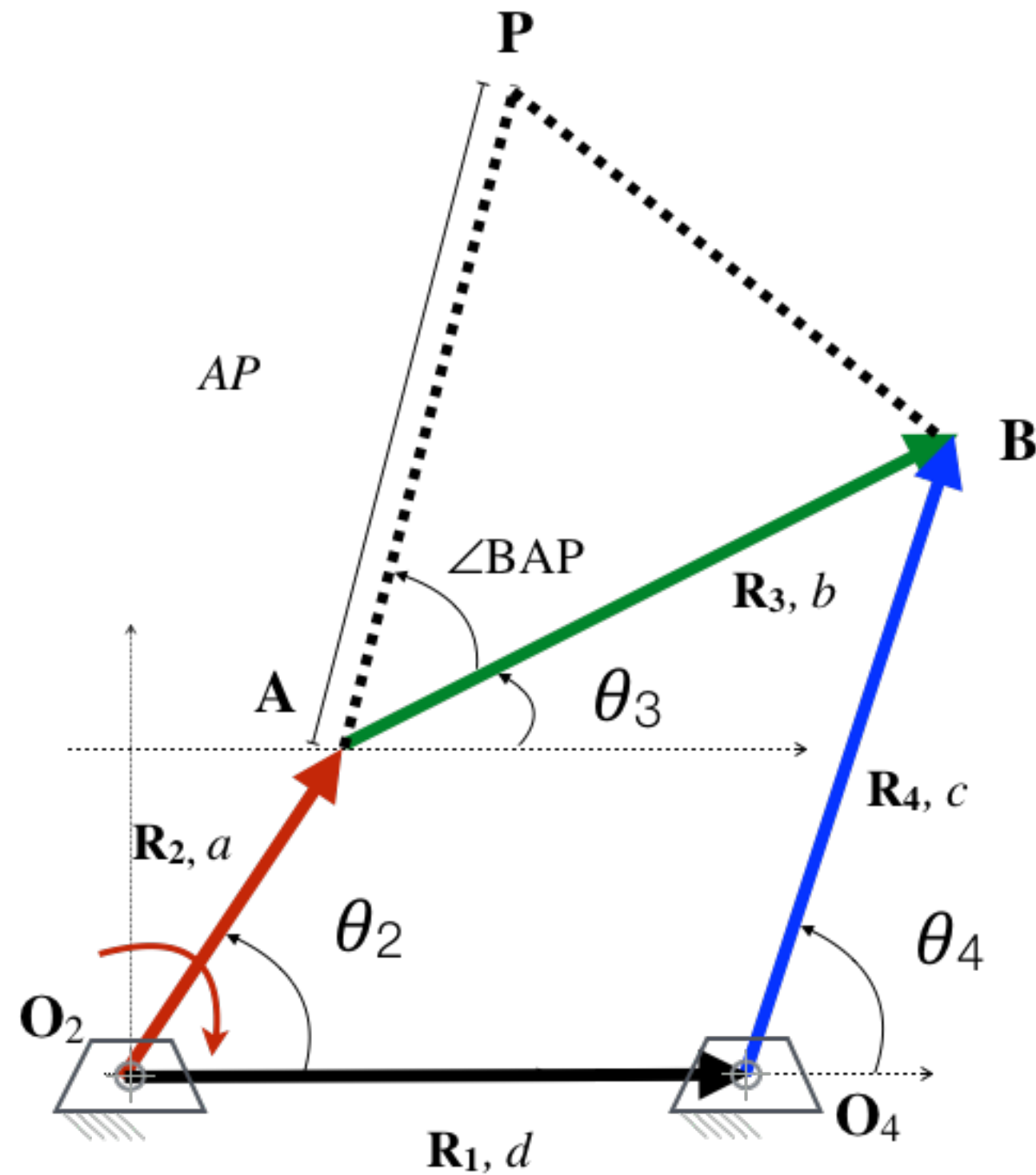
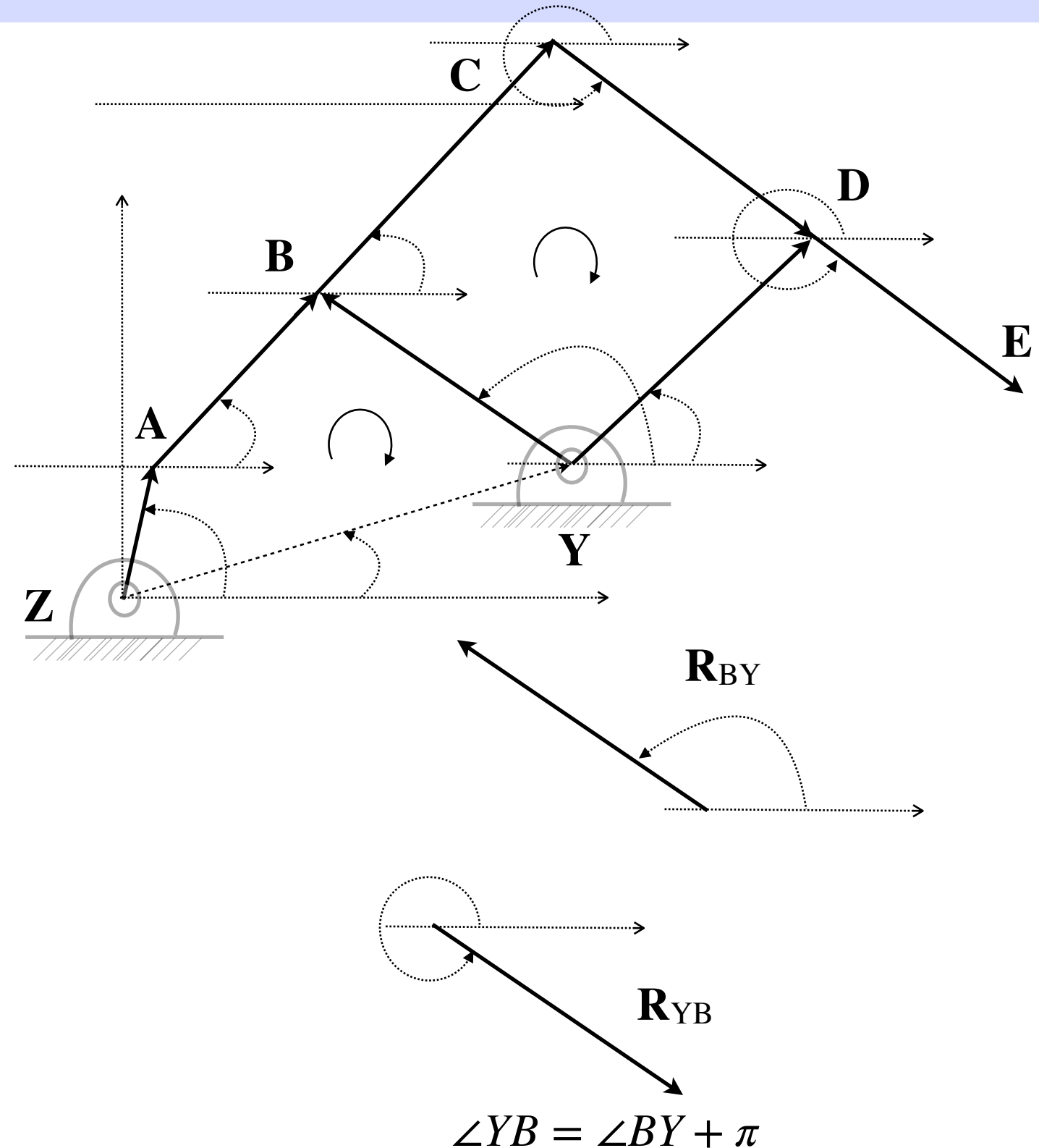


Fourbar



Pantograph

1. Draw the kinematic diagram
2. Draw the vector loop, showing all the angles
3. Identify each loop, taking care that you have no more than 2 unknowns per vector loop.
4. Compare the equations with the form for which the formulae have been derived to identify which angles are being output



$$\mathbf{R}_{AZ} + \mathbf{R}_{BA} - \mathbf{R}_{BY} - \mathbf{R}_{YZ} = 0$$

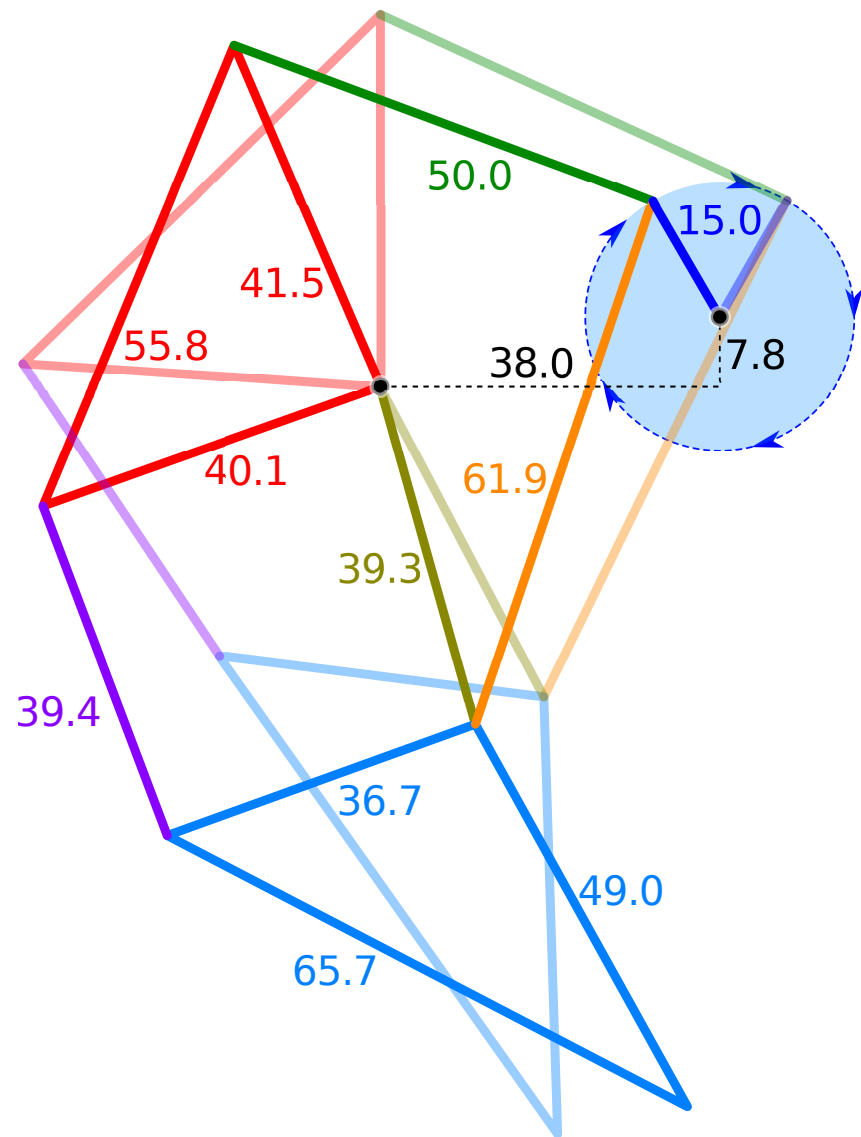
$$\mathbf{R}_{YB} + \mathbf{R}_{BY} = 0$$

$$\mathbf{R}_{CB} - \mathbf{R}_{BA} = 0$$

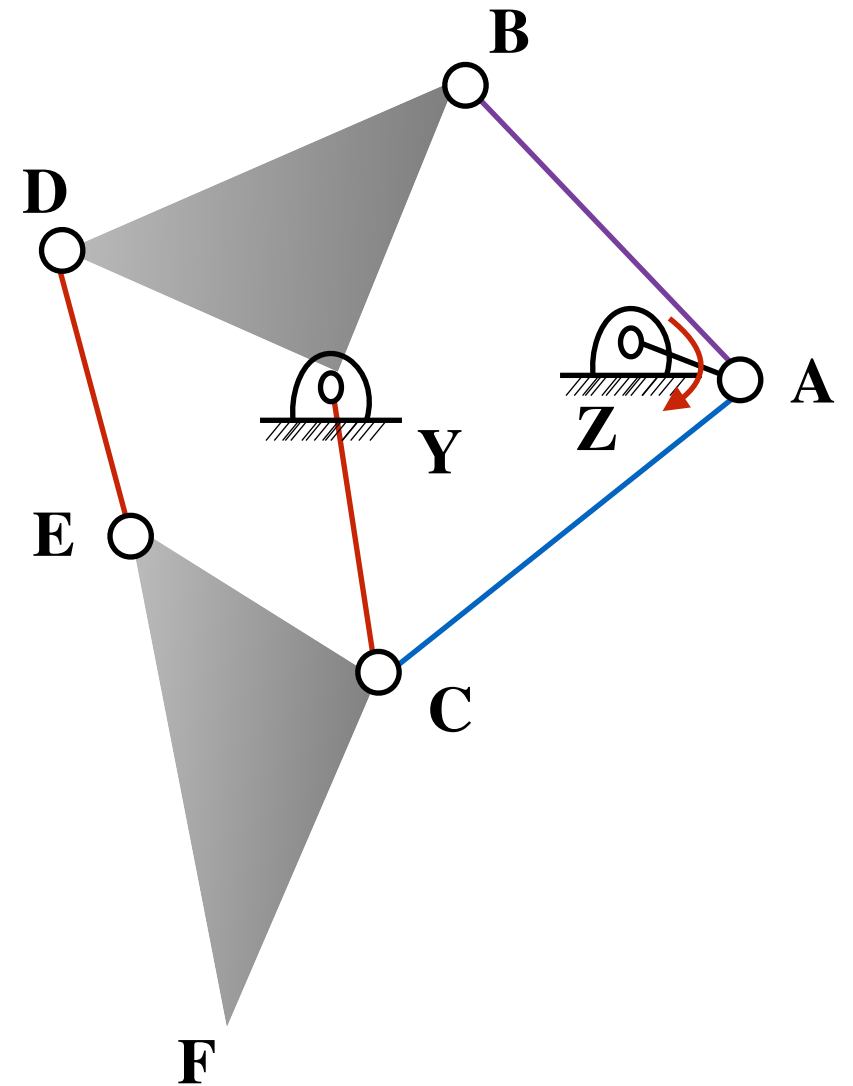
$$\mathbf{R}_{CB} + \mathbf{R}_{DC} - \mathbf{R}_{DY} - \mathbf{R}_{YB} = 0$$

$$\mathbf{R}_{ED} - \mathbf{R}_{DC} = 0$$

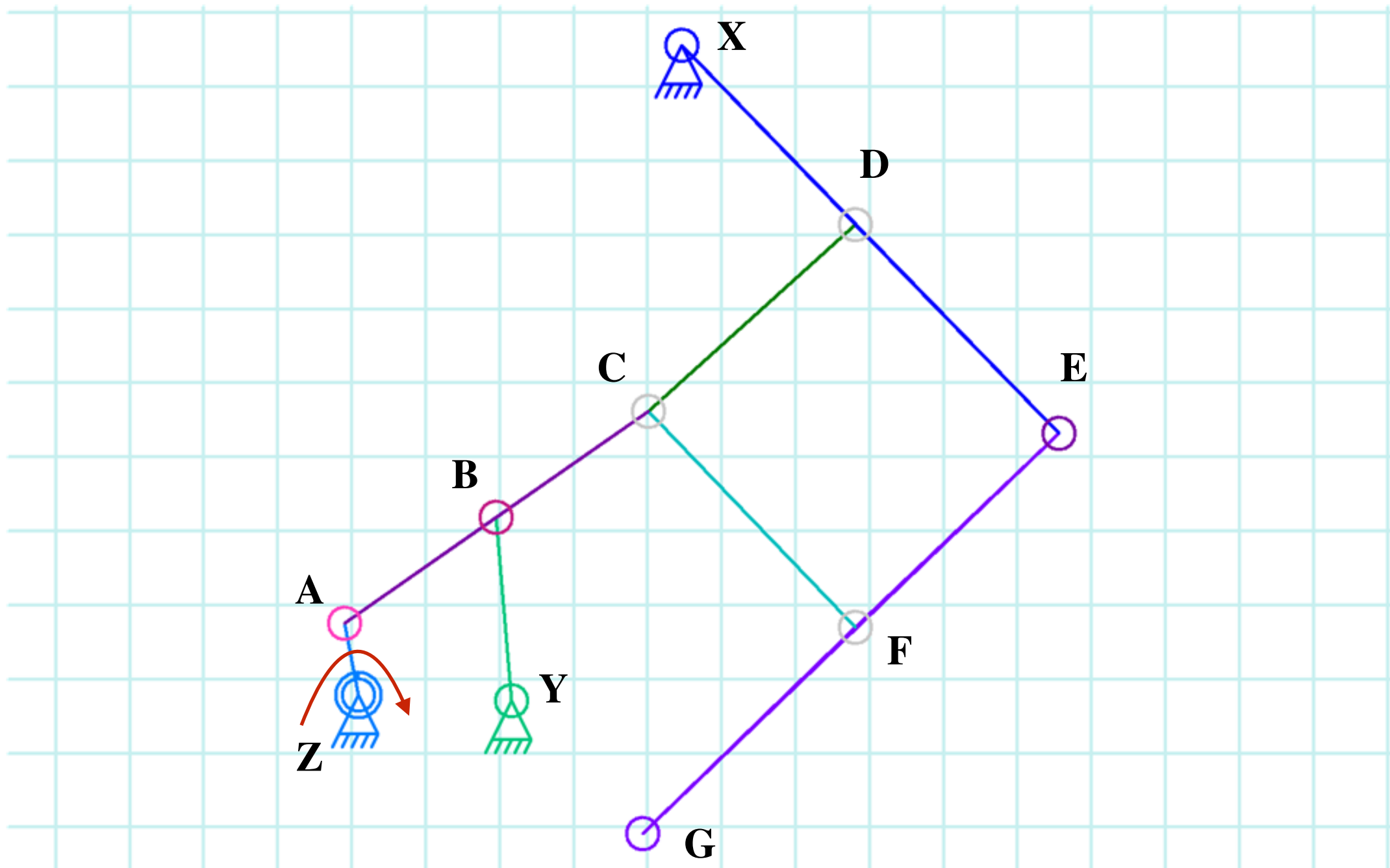
Jansen's



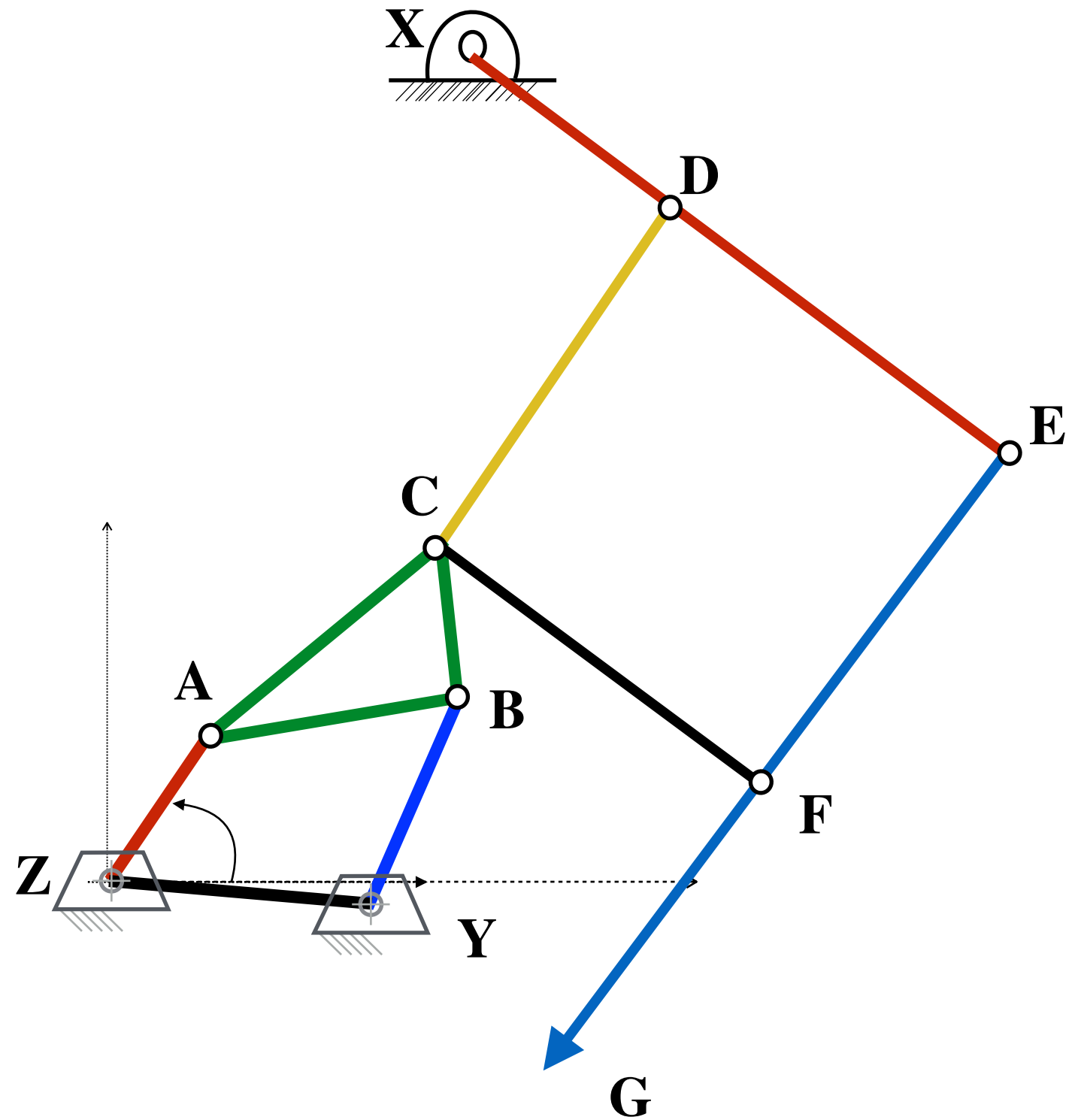
wikipedia



Hoeken's + pantograph



Fourbar + pantograph



Crank slider

