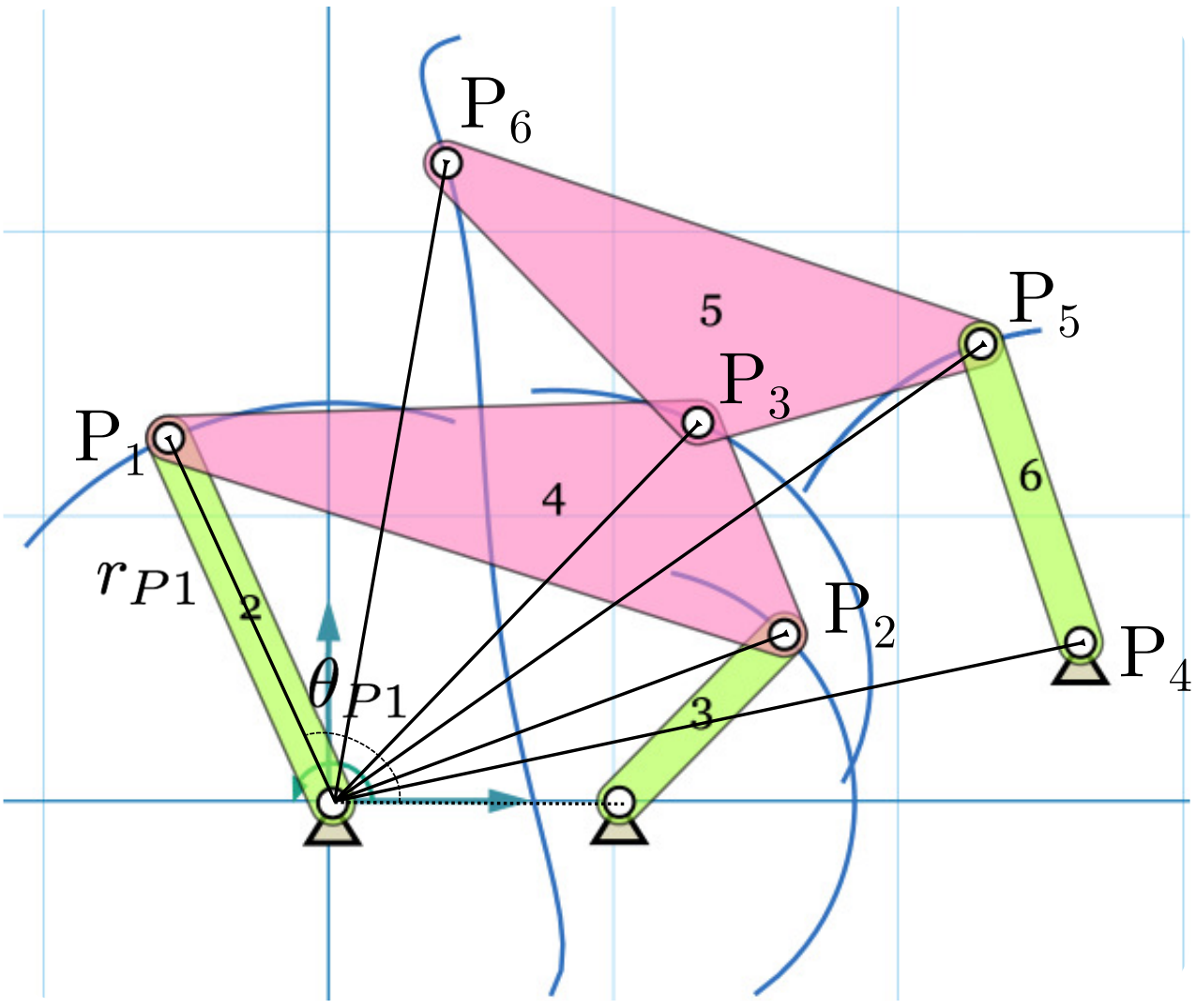
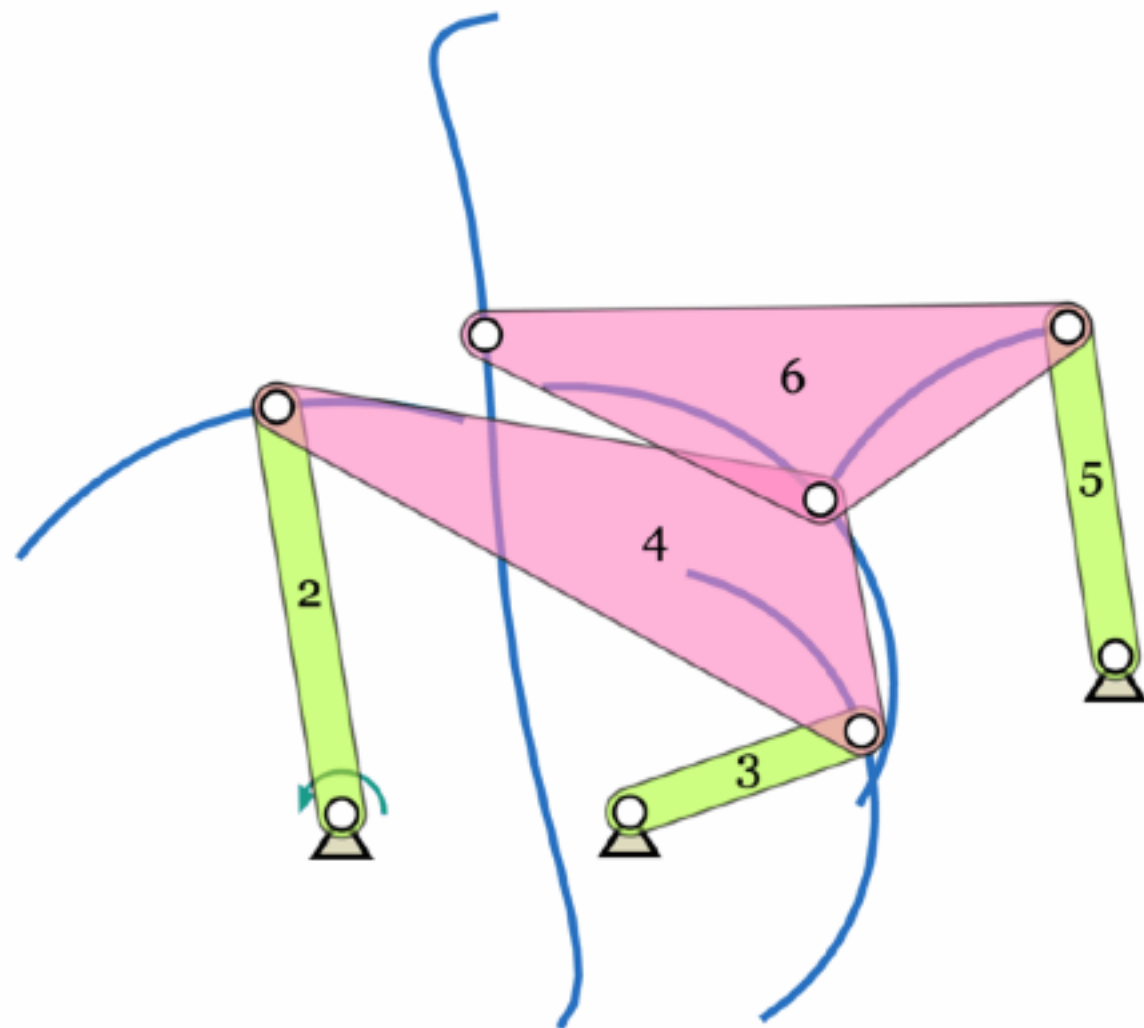
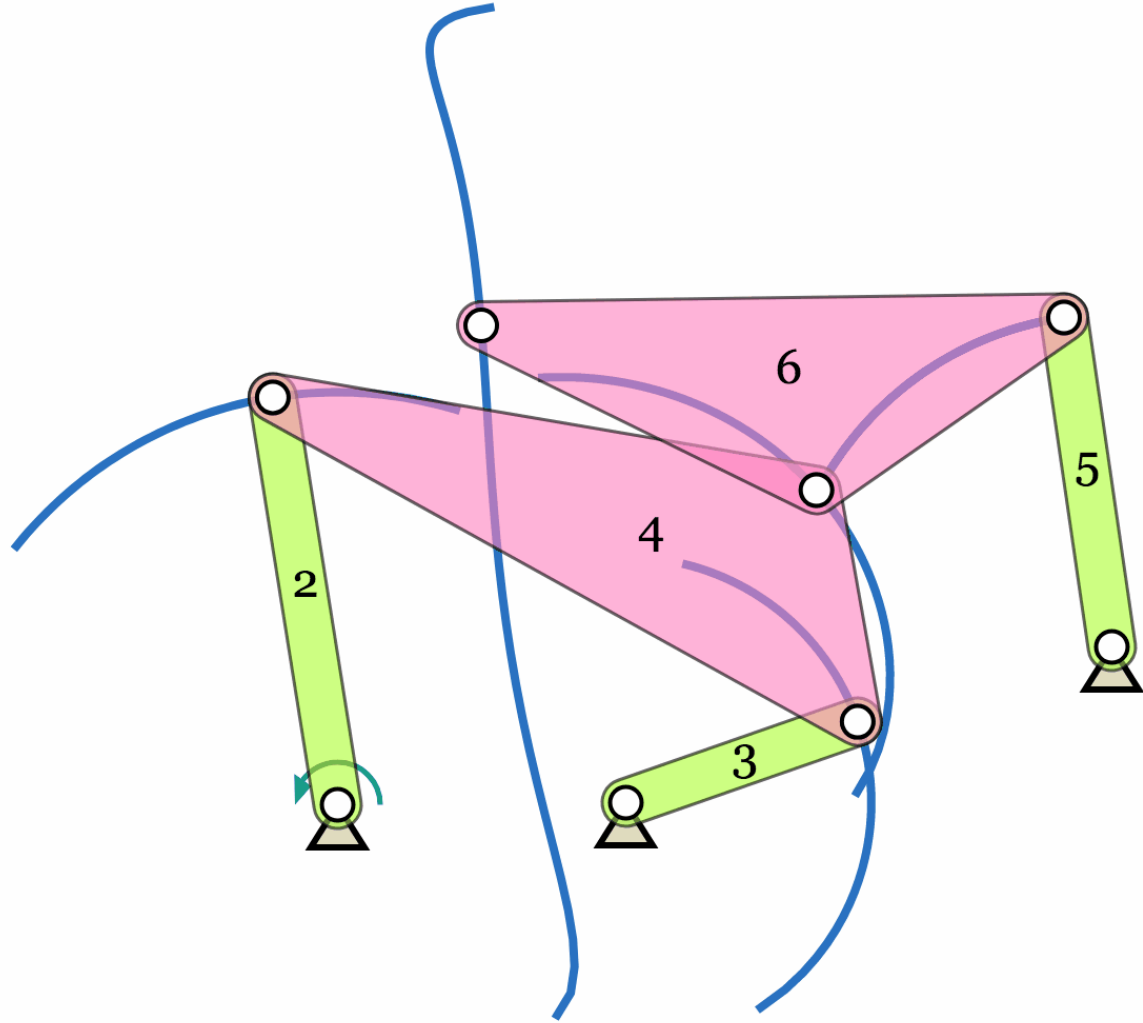


Linkage as Observed
Variable (X)

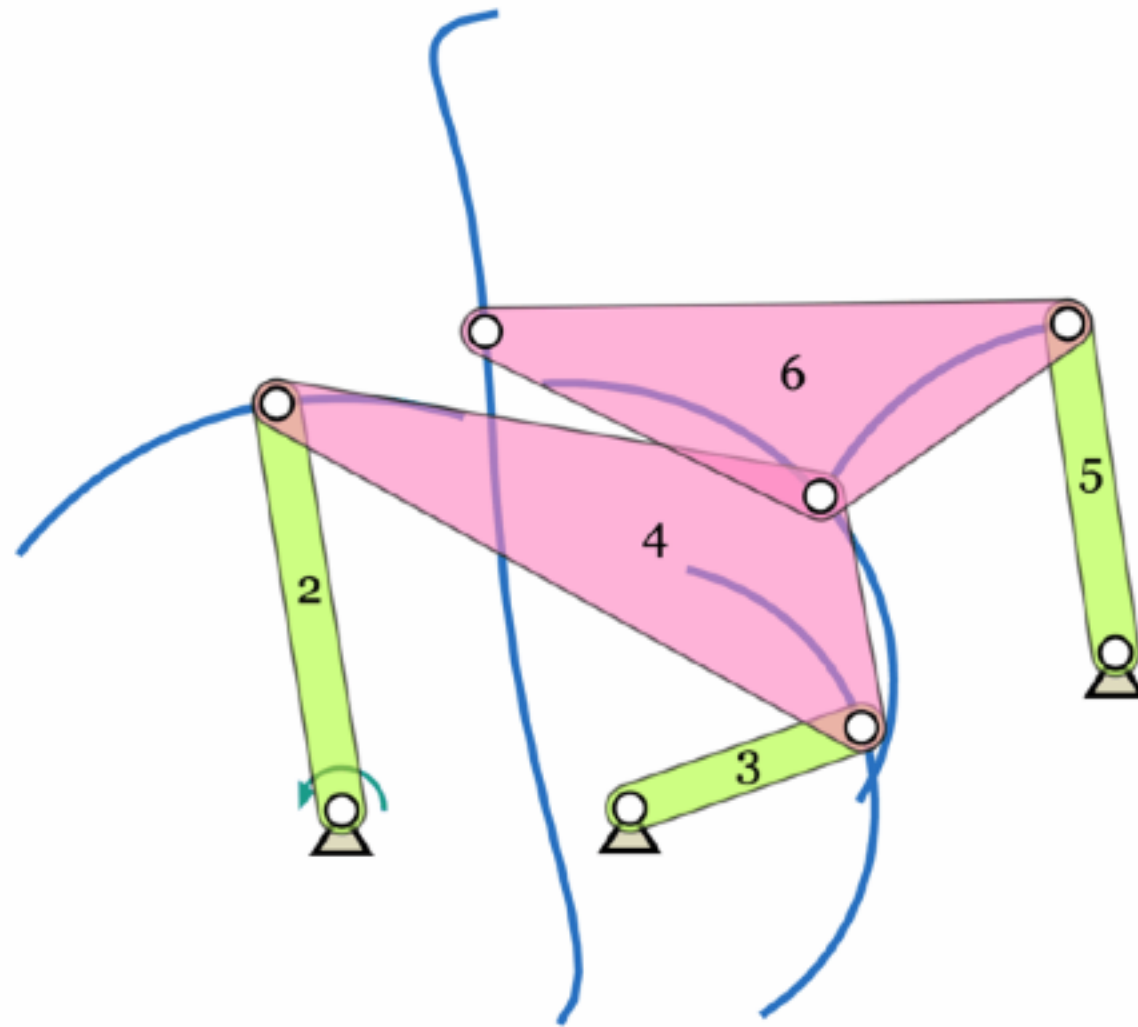


$$X = \{r_{p1}, \theta_{p1}, r_{p2}, \theta_{p2}, r_{p3}, \theta_{p1}\}_{i=1}^{100},$$





Linkage as Observed Variable (X)



$$X = \{r_{P1}, \theta_{P1}, r_{P2}, \theta_{P2}, r_{P3}, \theta_{Pl}\}_{i=1}^{100},$$

C-VAE

- Observed data is supposedly generated by an unknown function G of continuous latent variables and a condition Y

$$X = G(z, Y; \theta_g)$$

- Recognition Model approximates

$$\mu, \sigma = Q(X, Y; \theta_e)$$

$$q(z | X) = \mathcal{N}(\mu, \sigma)$$

- C-VAE learns to model the conditional distribution of X and Y