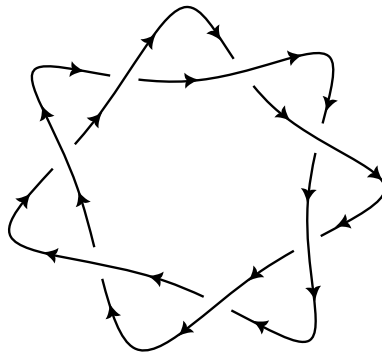# Torus knots

Exercise 1:   Prove that trefoil is a torus knot and find its parameters.

Exercise 2:   Prove that the following knots are torus knots and find its parameters.

Exercise 3:   Find and prove a formula that determines the number of components of the torus link $K(q,r)$. Moreover, show that each component of the torus link $K(q,r)$ is a torus knot, and determine its parameters.

Exercise 4:   Find and prove a formula that determines the total linking number of the torus link $K(q,r)$.