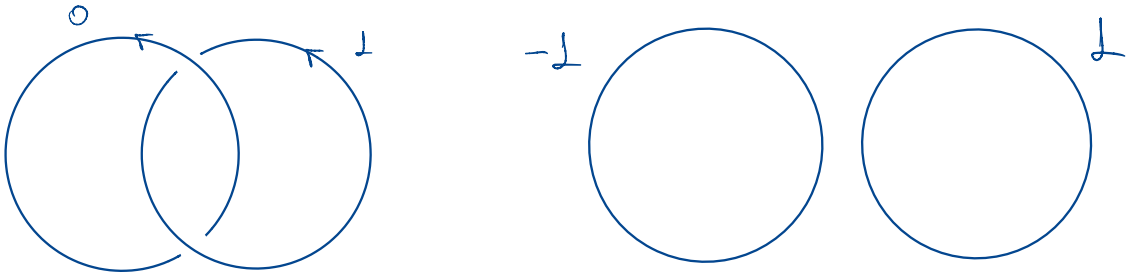
# HW

## Kirby Calculus

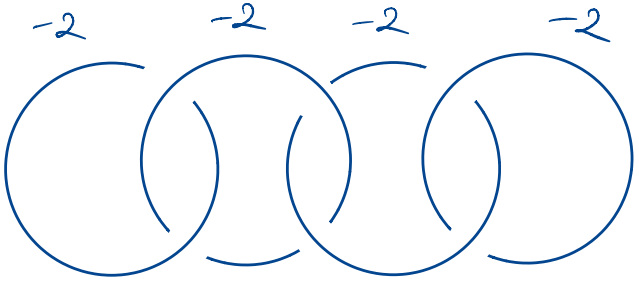
1. Show that



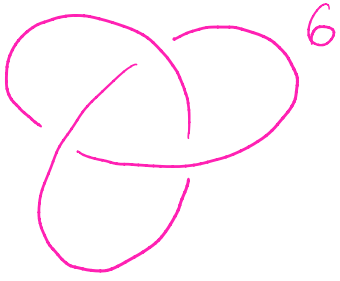

2. Show that

$$L(mn-1, m) \cong L(mn-1, n)$$

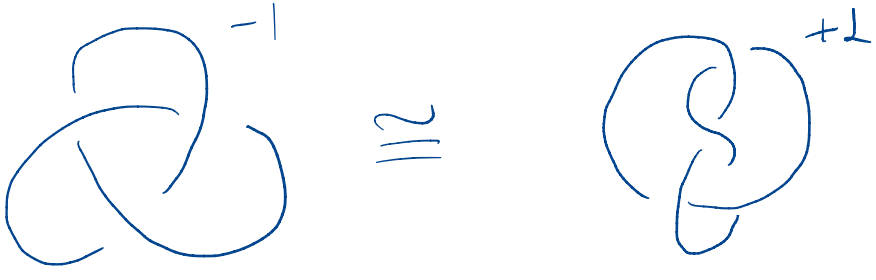
3. What manifold / surgery does the following diagram describe?



4 What manifold / surgery does the following diagram describe?




5 Show that




$\pm L(18,5)$