

$$K_0 \quad \text{[Diagram: two loops joined at a point]} \quad \underset{\sim}{\simeq} \quad \text{(BLANK)} \quad \underset{\sim}{\simeq} \quad \text{[Diagram: two loops joined at a point, rotated 180 degrees]}$$

$$K_1 \quad \text{[Diagram: a loop with a line passing through it]} \quad \underset{\sim}{\simeq} \quad \text{[Diagram: a loop with a line passing through it, rotated 180 degrees]} \quad \underset{\sim}{\simeq} \quad \text{[Diagram: a loop with a line passing through it, rotated 90 degrees]}$$

$$K_2 \quad \text{[Diagram: two lines crossing with a small loop on one line]} \quad \underset{\sim}{\simeq} \quad \text{[Diagram: two lines crossing without a loop]}$$

$$K_3 \quad \text{[Diagram: two lines crossing with a horizontal line segment above]} \quad \underset{\sim}{\simeq} \quad \text{[Diagram: two lines crossing with a horizontal line segment below]} \quad \underset{\sim}{\simeq} \quad \text{[Diagram: two lines crossing with a horizontal line segment above, rotated 180 degrees]} \quad \underset{\sim}{\simeq} \quad \text{[Diagram: two lines crossing with a horizontal line segment below, rotated 180 degrees]}$$

$$K_4 \quad \text{[Diagram: a thick vertical line with a loop on the left and a line on the right]} \quad \underset{\sim}{\simeq} \quad \text{[Diagram: a thick loop with a line passing through it, labeled } n \text{]} \quad \underset{\sim}{\simeq} \quad \text{[Diagram: a thick loop with a line passing through it, labeled } n \text{, rotated 180 degrees]} \quad \underset{\sim}{\simeq} \quad \text{[Diagram: a thick loop with a line passing through it, labeled } n \text{, rotated 90 degrees]}$$