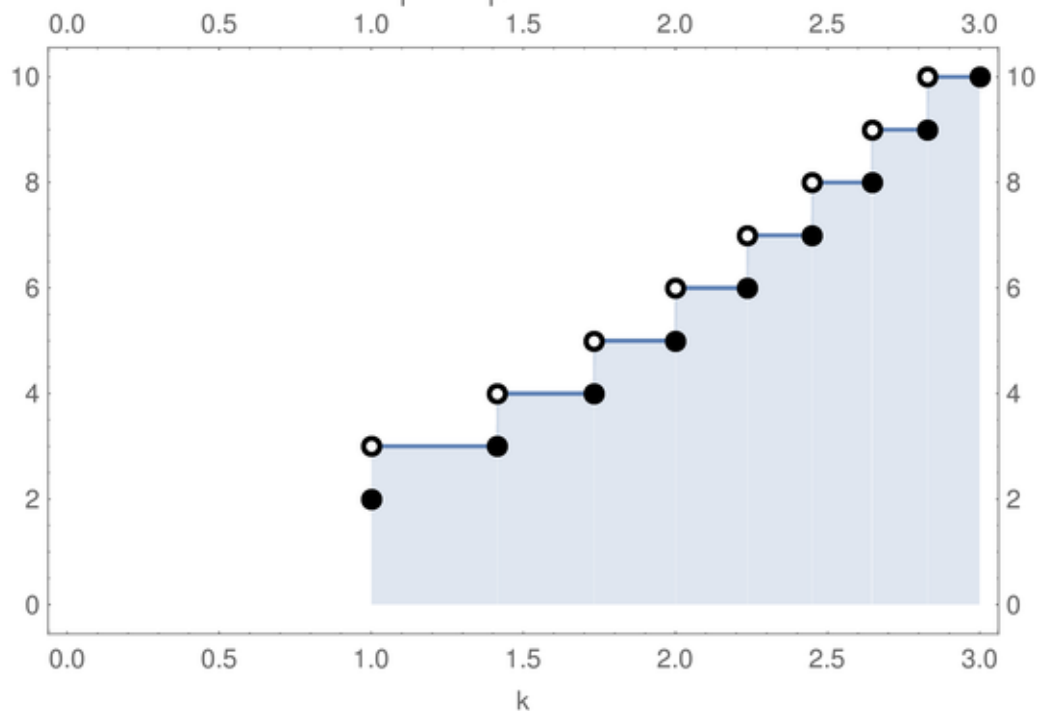


# Piecewise Composite Functions

$$\lceil k^2 + 1 \rceil, \quad 1 \leq k \leq 3$$



- 3  $k \leq \sqrt{2}$
- 4  $\sqrt{2} < k \leq \sqrt{3}$
- 5  $\sqrt{3} < k \leq 2$
- 6  $2 < k \leq \sqrt{5}$
- 7  $\sqrt{5} < k \leq \sqrt{6}$
- 8  $\sqrt{6} < k \leq \sqrt{7}$
- 9  $\sqrt{7} < k \leq 2\sqrt{2}$
- 10 True