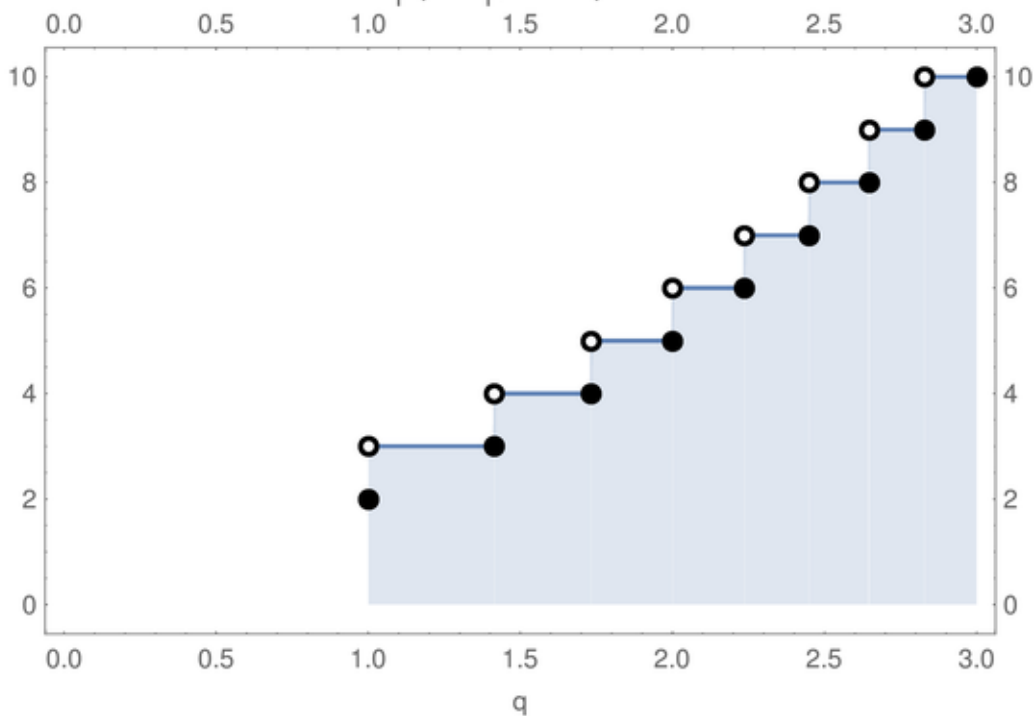


# Piecewise Composite Functions

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



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