Piecewise Composite Functions

$\lfloor 4e \rfloor, \quad \frac{1}{4} \le e \le 3$
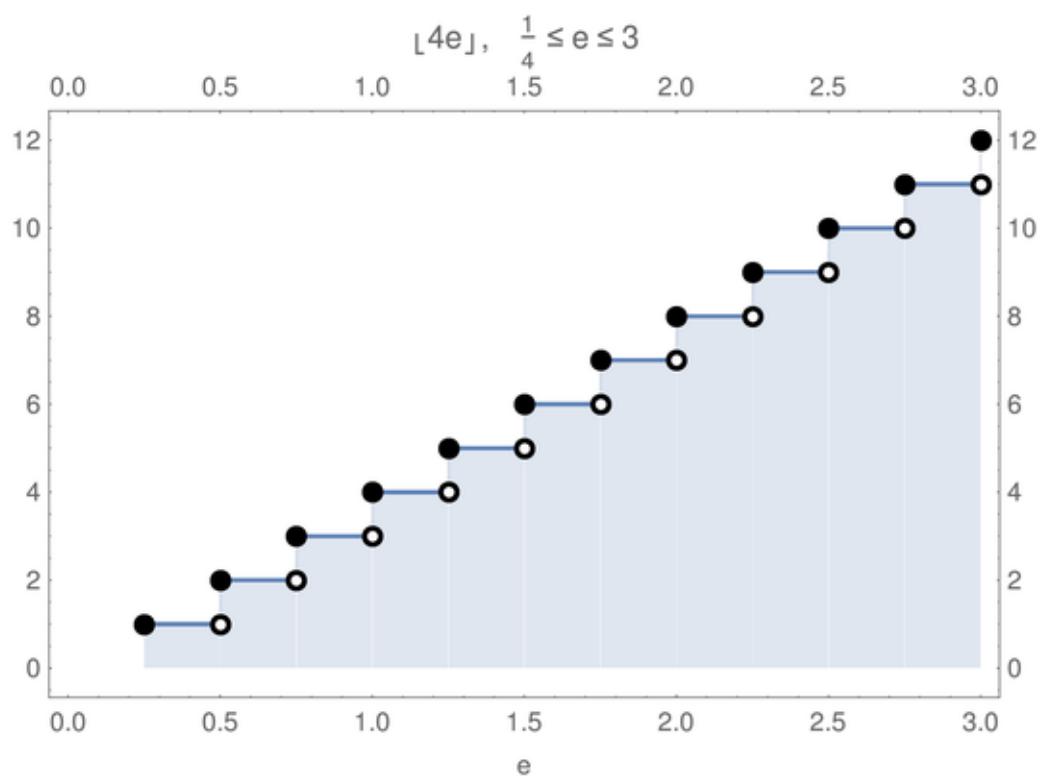
$$\begin{cases} 1 & e < \frac{1}{2} \\ 2 & \frac{1}{2} \le e < \frac{3}{4} \\ 3 & \frac{3}{4} \le e < 1 \\ 4 & 1 \le e < \frac{5}{4} \\ 5 & \frac{5}{4} \le e < \frac{3}{2} \\ 6 & \frac{3}{2} \le e < \frac{7}{4} \\ 7 & \frac{7}{4} \le e < 2 \\ 8 & 2 \le e < \frac{9}{4} \\ 9 & \frac{9}{4} \le e < \frac{5}{2} \\ 10 & \frac{5}{2} \le e < \frac{11}{4} \\ 11 & \text{True} \end{cases}$$