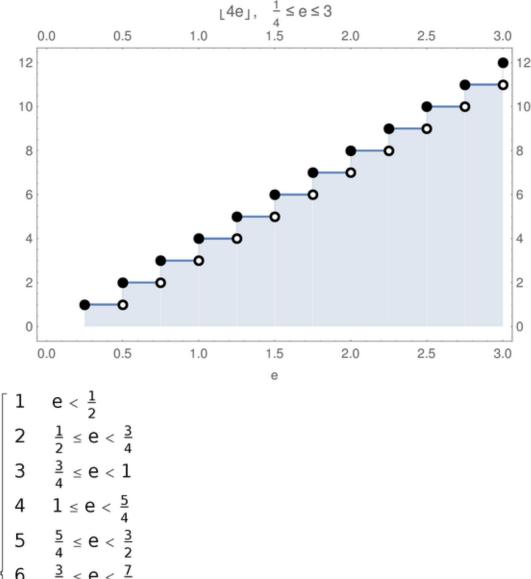
Piecewise Composite Functions



0.0 0.5 1.0 1.5 2.0 2.5 e
$$\begin{bmatrix} 1 & e < \frac{1}{2} \\ 2 & \frac{1}{2} \le e < \frac{3}{4} \end{bmatrix}$$

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 $\frac{7}{4} \le e < 2$

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 $2 \le e < \frac{9}{4}$

$$8 \quad 2 \le e < \frac{9}{4}$$

8
$$2 \le e < \frac{9}{4}$$

9 $\frac{9}{1} \le e < \frac{5}{2}$

$$9 \frac{9}{4} \le e < \frac{5}{2}$$

$$10 \frac{5}{2} \le e < \frac{11}{4}$$

True

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