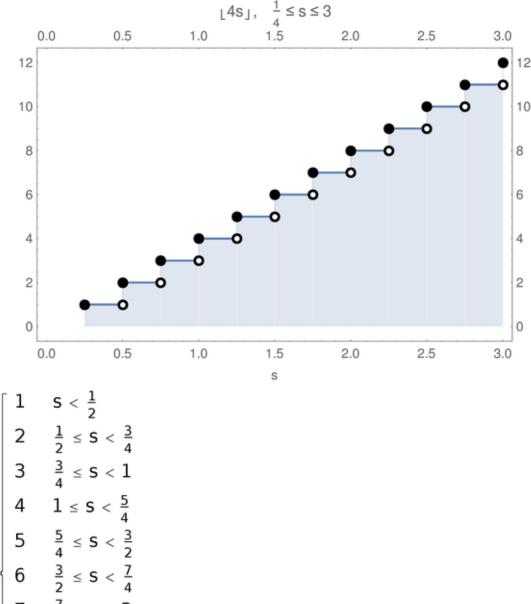
Piecewise Composite Functions



$$\begin{bmatrix} 1 & s < \frac{1}{2} \\ 2 & \frac{1}{2} \le s < \frac{3}{4} \\ 3 & \frac{3}{4} \le s < 1 \end{bmatrix}$$

3
$$\frac{3}{4} \le S < 1$$

4 $1 \le S < \frac{5}{4}$
5 $\frac{5}{4} \le S < \frac{3}{2}$
6 $\frac{3}{2} \le S < \frac{7}{4}$
7 $\frac{7}{4} \le S < 2$
8 $2 \le S < \frac{9}{4}$

$$5 \frac{5}{4} \le S < \frac{3}{2}$$

$$6 \frac{3}{2} \le S < \frac{7}{4}$$

9

10

11

 $\frac{9}{4} \leq S < \frac{5}{2}$

 $\frac{5}{2} \leq S < \frac{11}{4}$

True