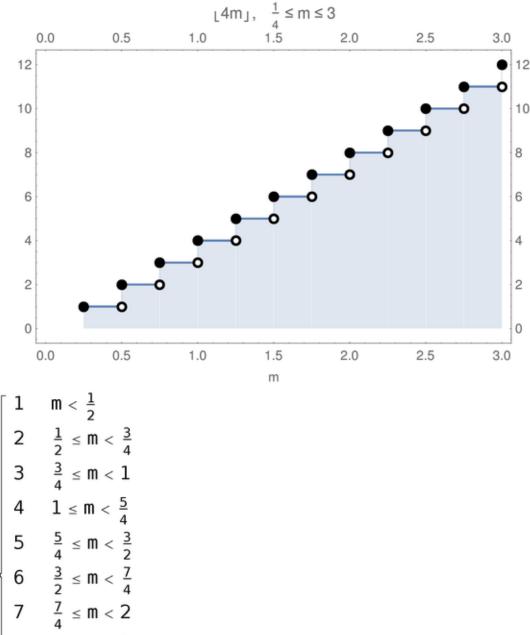
Piecewise Composite Functions



$$4 = m < 1$$

$$4 = 1 \le m < \frac{5}{4}$$

$$5 = \frac{5}{4} \le m < \frac{3}{2}$$

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

$$7 = \frac{7}{4} \le m < 2$$

$$8 = 2 \le m < \frac{9}{4}$$

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

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

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

8

$$\begin{cases} 6 & \frac{3}{2} \le m < \frac{7}{4} \\ 7 & \frac{7}{4} \le m < 2 \end{cases}$$

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

 $\frac{5}{2} \leq M < \frac{11}{4}$ 10

11

True