

# Piecewise Functions

$$\begin{cases} 4 - 3w & -5 \leq w \leq -2 \\ \sin(5\pi w) & -2 < w < 3 \\ \frac{w^2}{2} & 3 \leq w < 4 \\ 7 & w \geq 4 \end{cases}$$

