Piecewise Functions
$$\begin{cases}
4 - 3 k & -6 \le k < -3 \\
\cos (4 \pi k) & -3 \le k \le -1 \\
\frac{k^2}{3} - k & -1 < k \le 0 \\
4 & k > 0
\end{cases}$$

