Piecewise Functions
$$\begin{bmatrix}
-x & -6 < x < -5 \\
\frac{x^2}{2} & -5 \le x < 0 \\
\sin(5\pi x) & 0 \le x < 1
\end{bmatrix}$$

$$-5 \le x < 0$$

 $\sin(5\pi x)$ $0 \le x < 1$
 $x \ge 1$

-6

