

$$U(x) = \frac{x^\gamma}{\gamma}$$

x



A graph of the function $U(x) = \frac{x^\gamma}{\gamma}$ is shown. The horizontal axis is labeled x and the vertical axis is labeled $U(x)$. The curve is a blue line that starts at the origin $(0,0)$ and increases monotonically, concave down, as x increases. The curve is smooth and continuous, representing the integral of $x^{\gamma-1}$ with respect to x .