



A graph illustrating the Dirac delta function, $\delta(y - y_0)$. The horizontal axis is labeled y and the vertical axis is labeled $\delta(y - y_0)$. The function is zero for all $y \neq y_0$ and has an infinite peak at $y = y_0$. The peak is represented by a vertical orange line, and the horizontal axis is also orange. A tick mark on the horizontal axis is labeled y_0 .

$$\delta(y - y_0)$$

y_0

y