

# Fourier Transform Example

## Gaussian

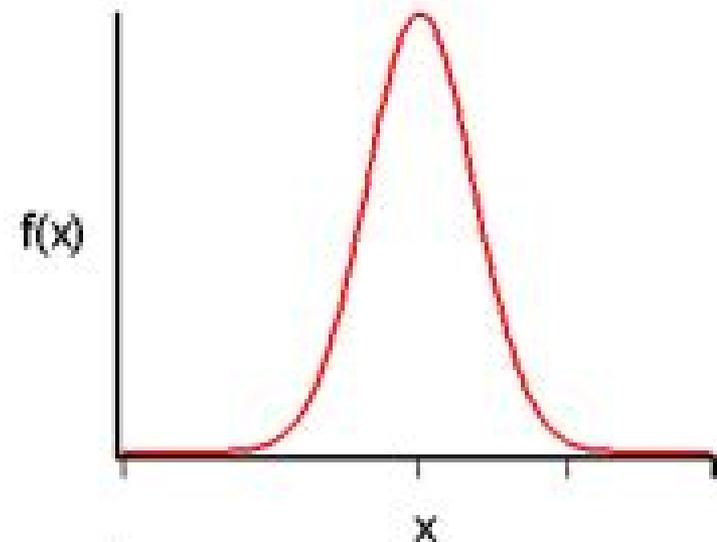
$$f(x) = \frac{\alpha}{2\pi} \exp\left[-\alpha \frac{x^2}{2}\right]$$

## Transform is also a Gaussian!

$$\hat{f}(k) = \left(\frac{2\alpha}{\pi}\right)^{1/2} \exp\left[-\frac{1}{\alpha} \frac{k^2}{2}\right]$$

## Width of transform is reciprocal of width of function

- *k-space is "reciprocal" space*
- *sharp  $f(x)$  requires more values of  $F(k)$  for good representation*
- *$\delta(x-x_0)$  transforms into a sine/cosine wave of frequency  $x_0$ :  $\hat{\delta}(k) = e^{2\pi i k x_0}$*



# Fourier Transform Example Problems And Solutions

**S Marginson**



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