

$$b(n_) := \text{If}[n \bmod 2 = 0, 2^{n-1}, n^2]$$

$$c(n_) := \text{If}[n \bmod 2 = 0, n - 1, 2n - 2]$$

$$d(n_) := \text{If}[n \bmod 2 = 0, \text{If}[n = 2, 9, 9 \times 3^{\frac{n-2}{2}-1}], 3^{\frac{n}{2}+\frac{1}{2}}]$$

$$g(n_) := \text{If}[n \bmod 2 = 0, \text{If}[n = 2, 0, \frac{n}{2} + 1], 1]$$

$$\text{eadj}(n_) := \frac{\log(3) b(n) - c(n) W(\log(3) d(n) 3^{\frac{g(n)}{c(n)}})}{\log(3) c(n)}$$

In[766]:= eadj [2]

eadj [3]

$$\frac{2 \log(3) - W(9 \log(3))}{\log(3)}$$

Out[766]=

$$\log(3)$$

Out[767]=

$$\left(9 \log(3) - 4 W\left(9 \sqrt[4]{3} \log(3)\right)\right) / (4 \log(3))$$

$$h(n_) := \text{If}[n \bmod 2 = 0, \sqrt{\frac{2}{\pi(n-1)}}, \sqrt{\frac{1}{\pi\left(\frac{n}{2} - \frac{1}{2}\right)}}]$$

In[687]:= h [2]

$$\sqrt{\frac{2}{\pi}}$$

In[795]:= h [3]

$$\frac{1}{\sqrt{\pi}}$$

In[694]:= h [4]

$$\sqrt{\frac{2}{3\pi}}$$

$$a(n_) := \frac{h(n)}{\operatorname{erf}\left(\sqrt{\operatorname{eadj}(n) + 3^{\operatorname{eadj}(n)}}}\right)}$$

In[807]:= a[3]

$$\frac{1}{\sqrt{\pi} \operatorname{erf}\left(\sqrt{\left(\frac{9 \log(3) - 4 W\left(9 \sqrt[4]{3} \log(3)\right)}{4 \log(3)} + 3^{\frac{9 \log(3) - 4 W\left(9 \sqrt[4]{3} \log(3)\right)}{4 \log(3)}}\right)}}\right)}$$

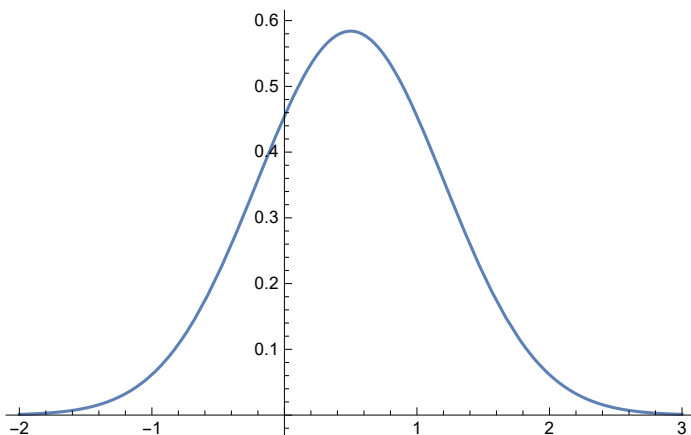
$$p(x_, j_, k_) := a(k - j) e^{-\frac{(x - \frac{j+k}{2})^2}{0.5(k-j) - 0.5}}$$

In[983]:= Integrate[p[x, -1, 2], {x, -1, 2}]

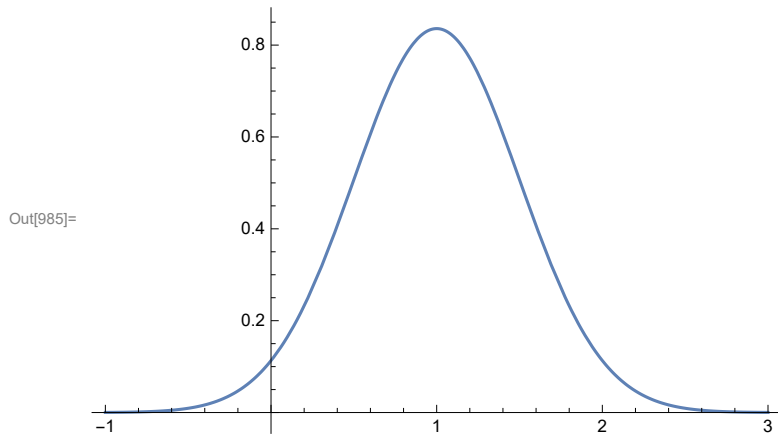
Out[983]= 1.

In[984]:= Plot[p[x, -1, 2], {x, -2, 3}]

Out[984]=



In[985]:= **Plot**[**p**[**x**, **0**, **2**], {**x**, -1, 3}]



In[986]:= **Plot**[**p**[**x**, **0**, **4**], {**x**, -1, 5}]

