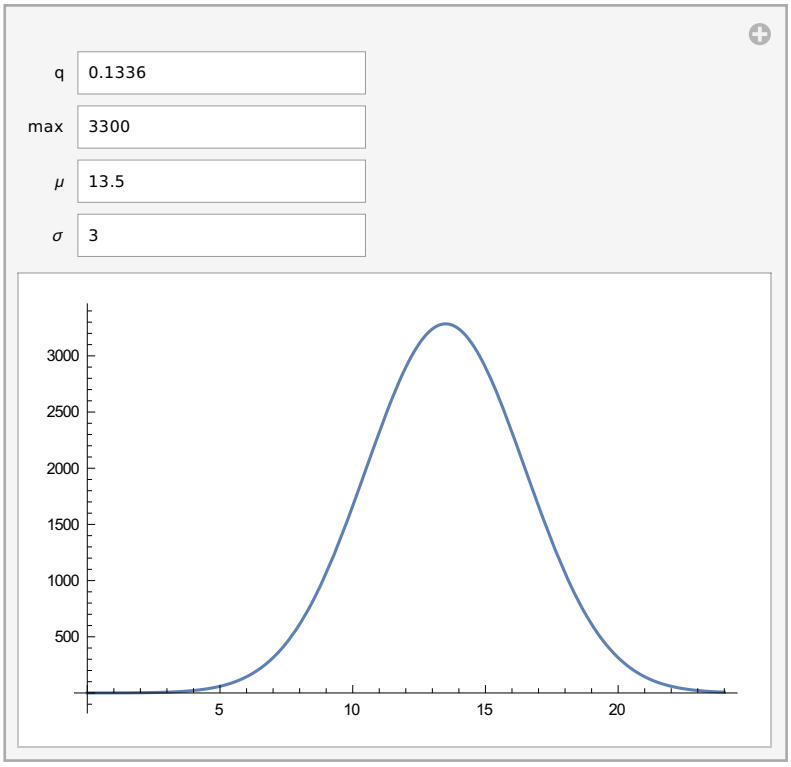
In[87]:=
```
PDF[NormalDistribution[μ, σ], x]
```

Out[87]=
$$\frac{e^{-\frac{(x-\mu)^2}{2\sigma^2}}}{\sqrt{2\pi}\ \sigma}$$

In[2]:=
```
Manipulate[Plot[e^(-(x-μ)^2/(2σ^2))/Sqrt[2π] σ / q * max, {x, 0, 24}], {q, 0.1336}, {max, 3300}, {μ, 13.5}, {σ, 3}]
```

Out[2]=



In[4]:=
```
Manipulate[Plot[max - a * (mu - x * b)^2, {x, 0, 24}], {max, 3300}, {mu, 13.5}, {a, 70, 100}, {b, 1.0574}]
```

Out[4]=