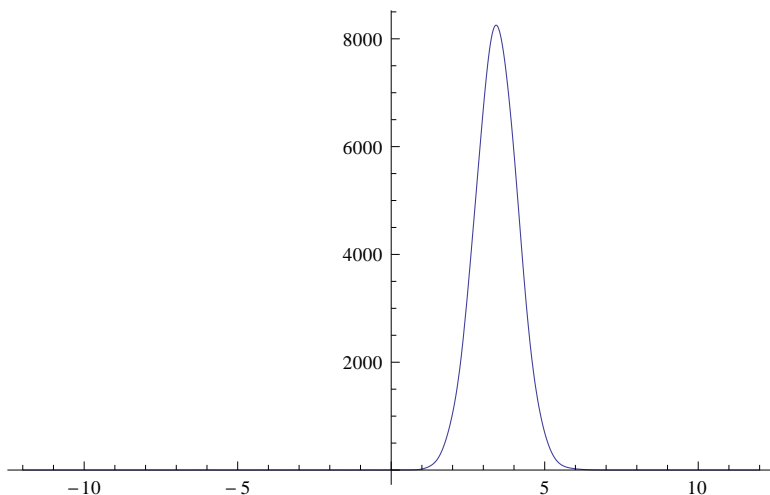
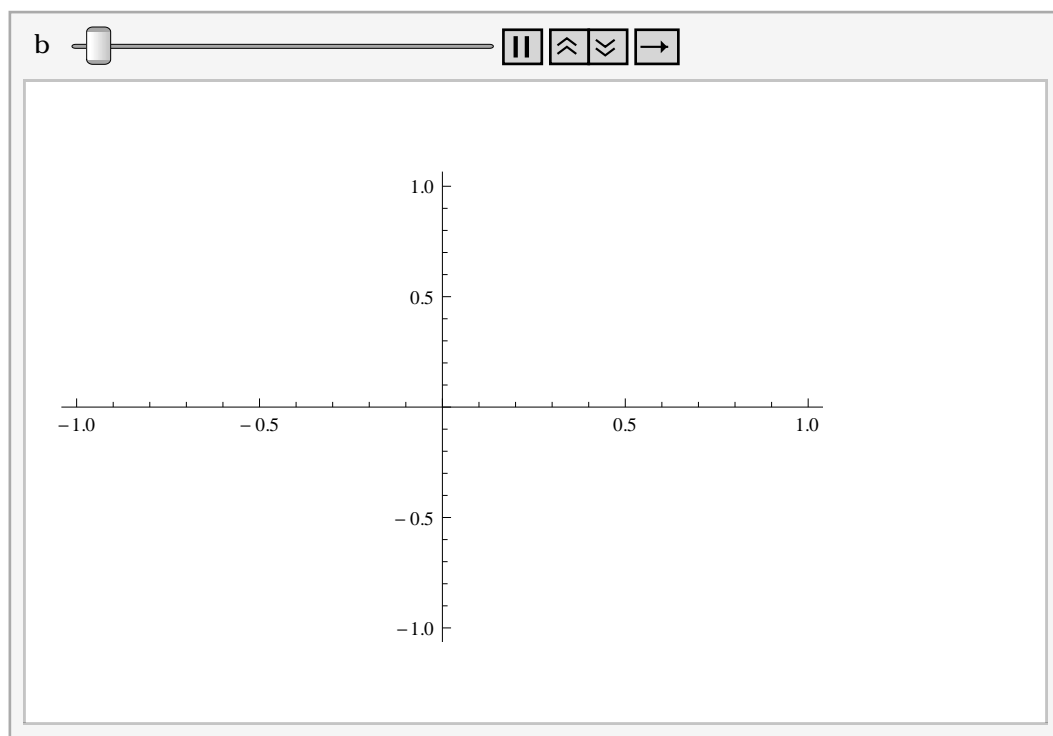


```
f[n_, x_] := HermiteH[n, x] / Sqrt[2^n n!] * Exp[-x^2 / 2];
Plot[Abs[G[0.2]]^2, {x, -12, 12}, PlotRange -> All]
```



```
Animate[Plot[{Abs[G[b]]^2}, {x, -7, 7}, PlotRange -> All], {b, 0, 2}]
```



```
a[b_] := 1 * Exp[I * b * Pi]; g = Simplify[Sum[a[b]^n / Sqrt[n!] f[n, x], {n, 0, 20}]];
G[B_] := g /. b -> B // N
1 / Sqrt[900]
```

$\frac{1}{30}$