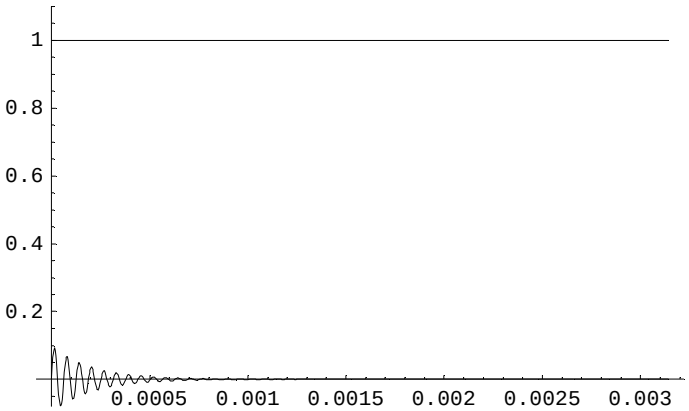
(a) krug

a)

In[142]:=

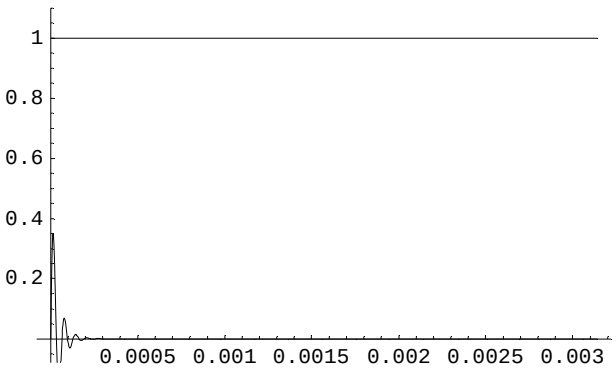
```
f[x_] = (0.1001 * Sin[9.98 * 10^4 * x]) * e^(-5*10^3*x)
g[x_] = 1
Plot[{f[x], g[x]}, {x, 0, π / (10^3)}, PlotRange → {-0.08, 1.1}]
```



b)

In[145]:=

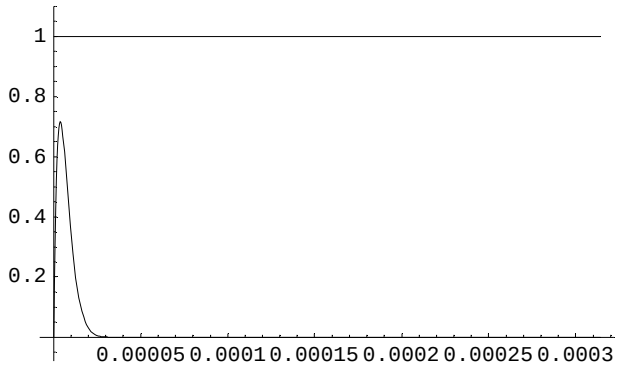
```
f[x_] = (0.516 * Sin[9.68 * 10^4 * x]) * e^(-2.5*10^4*x)
g[x_] = 1
Plot[{f[x], g[x]}, {x, 0, π / (10^3)}, PlotRange → {-0.08, 1.1}]
```



c)

In[151]:=

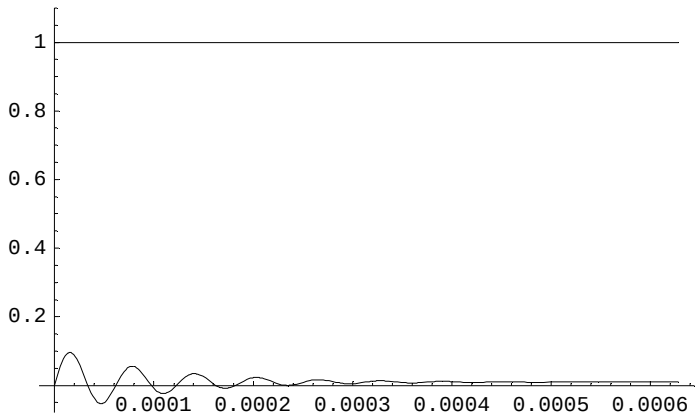
```
f[x_] = (5 * Sin[9.99 * 10^4 * x]) * e^-2.5*10^5*x
g[x_] = 1
Plot[{f[x], g[x]}, {x, 0, π / (10^4)}, PlotRange → {-0.08, 1.1}]
```



(b) krug

a)

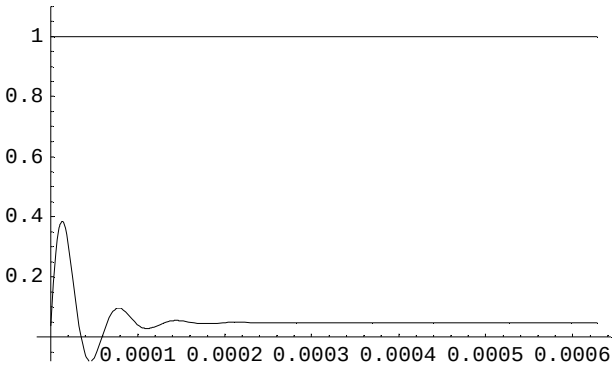
```
f[x_] = (0.1009 * Sin[1.005 * 10^5 * x]) * e^-1*10^4*x +
  9.9 * 10^-3 - (9.9 * 10^-3 * Cos[1.005 * 10^5 * x]) * e^-1*10^4*x
g[x_] = 1
Plot[{f[x], g[x]}, {x, 0, π / (5 * 10^3)}, PlotRange → {-0.08, 1.1}]
```



b)

In[170]:=

```
f[x_] = (0.525 * Sin[9.79 * 10^4 * x]) * e^(-3*10^4*x) +
  4.76 * 10^-2 - (9.9 * 10^-3 * Cos[1.005 * 10^5 * x]) * e^(-1*10^4*x)
g[x_] = 1
Plot[{f[x], g[x]}, {x, 0, π / (5 * 10^3)}, PlotRange → {-0.08, 1.1}]
```



c)

In[203]:=

```
f[x_] = (4.15 * Sin[1.005 * 10^5 * x]) * e^(-1*10^4*x) +
  0.333 - (0.333 * Cos[1.23 * 10^5 * x]) * e^(-2.55*10^4*x)
g[x_] = 1
Plot[{f[x], g[x]}, {x, 0, π / (10^3)}, PlotRange → {-3, 4.2}]
```