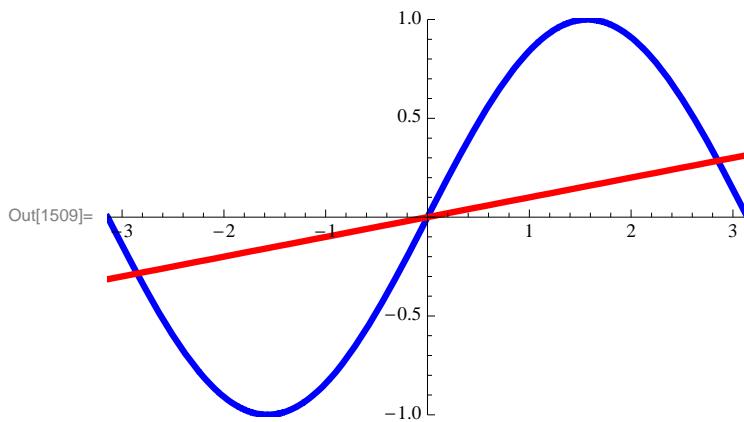


(\*\* EQUAZIONI NONLINEARI \*\*)

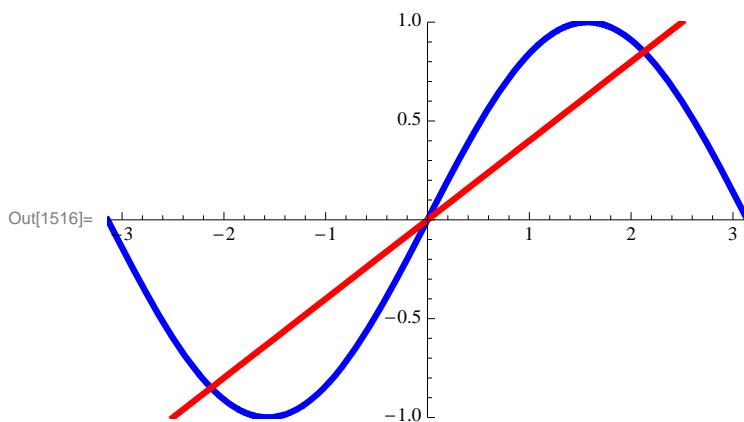
```
In[1505]:= Clear[f, g, a, a0];
f[x_] := Sin[x];
g[x_] := a*x;
a0 = 0.1;
Plot[{f[x], g[x] /. a -> a0}, {x, -Pi, Pi}, PlotRange -> {{-Pi, Pi}, {-1, 1}},
PlotStyle -> {{RGBColor[0, 0, 1], Thickness[0.01]}, {RGBColor[1, 0, 0], Thickness[0.01]}}]
```



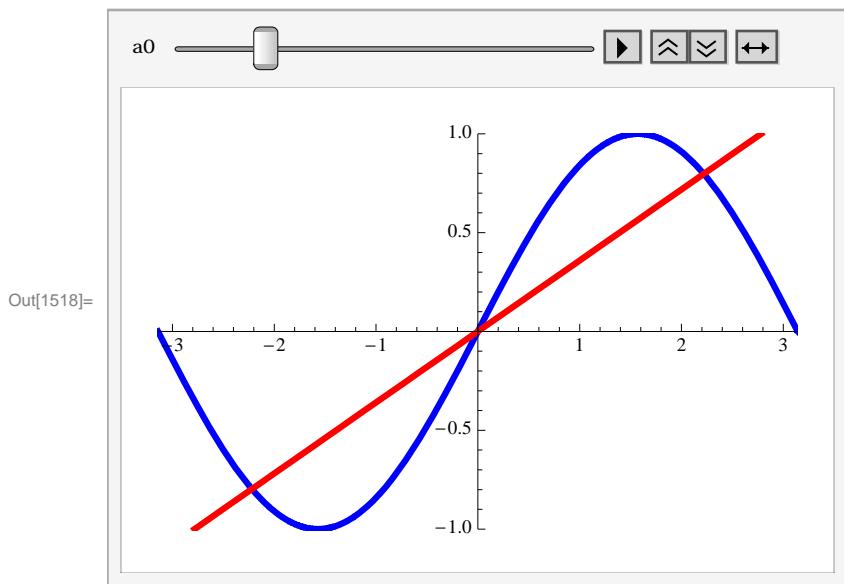
```
In[1510]:= Clear[ff, a0];
ff[1][x_] := f[x];
Do[a0 = (i - 1) * 0.4; ff[i][x_] = g[x] /. a -> a0, {i, 2, 5}]
```

```
In[1513]:= a0 = 0.;
i = 1;
While[a0 <= 2., {pl[i] = Plot[{f[x], g[x] /. a -> a0}, {x, -Pi, Pi},
PlotRange -> {{-Pi, Pi}, {-1, 1}}, PlotStyle -> {{RGBColor[0, 0, 1], Thickness[0.01]},
{RGBColor[1, 0, 0], Thickness[0.01]}]]; i += 1; a0 += 0.4}];
```

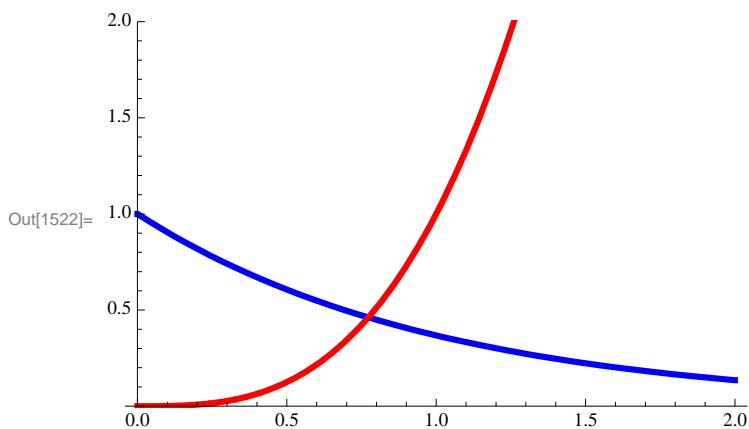
```
In[1516]:= Show[pl[2]]
```



```
In[1517]:= Clear[a0];
Animate[
 Plot[{f[x], g[x] /. a -> a0}, {x, -Pi, Pi}, PlotRange -> {{-Pi, Pi}, {-1, 1}}, PlotStyle ->
 {{RGBColor[0, 0, 1], Thickness[0.01]}, {RGBColor[1, 0, 0], Thickness[0.01]}},
 {a0, 0, 2}, AnimationRunning -> False]
```



```
In[1519]:= Clear[f1, g1];
f1[x_] := Exp[-x];
g1[x_] := x^3;
Plot[{f1[x], g1[x]}, {x, 0, 2}, PlotRange -> {0, 2},
 PlotStyle -> {{RGBColor[0, 0, 1], Thickness[0.01]}, {RGBColor[1, 0, 0], Thickness[0.01]}}]
```



```
In[1523]:= Clear[f2];
f2[x_] := Exp[-x] - 1/2;
Plot[f2[x], {x, 0, 2}, PlotRange -> {-1/2, 1/2},
PlotStyle -> {{RGBColor[0, 0, 1], Thickness[0.01]}]}
```

