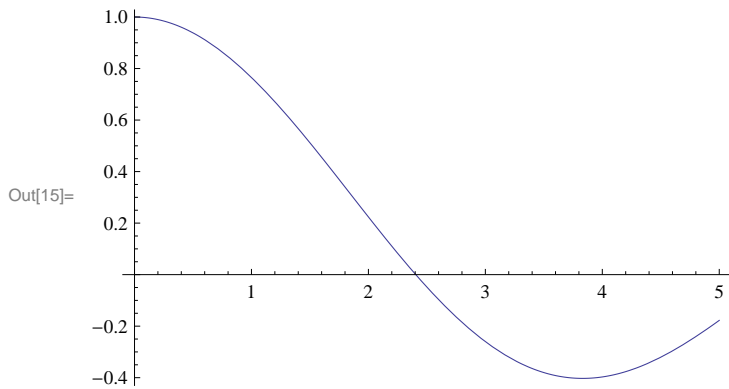
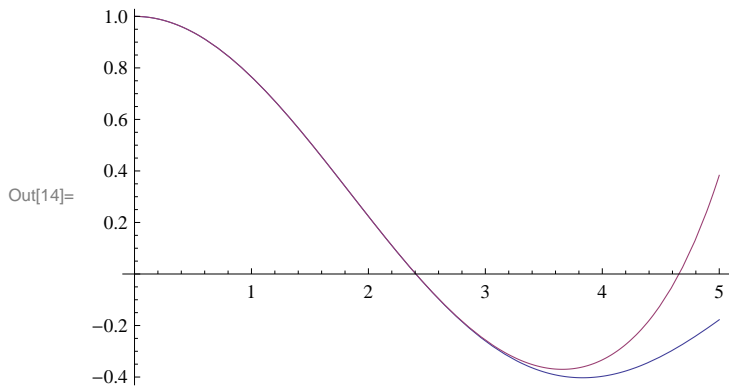


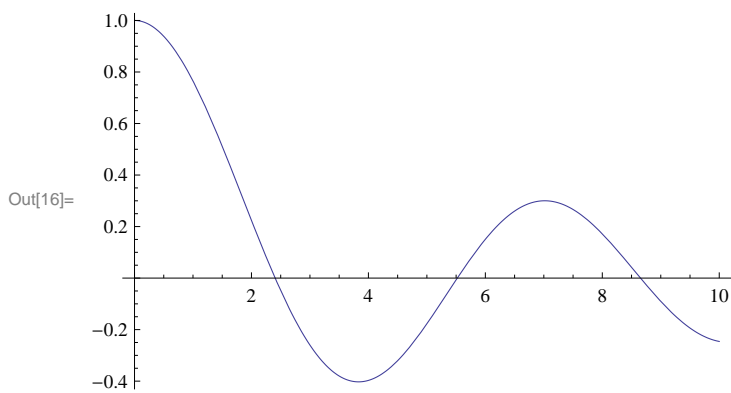
```
In[15]:= Plot[{BesselJ[0, x]}, {x, 0, 5}]
```



```
In[14]:= Plot[{BesselJ[0, x], 1 - (x / 2)^2 + 1 / 4 * (x / 2)^4 - 1 / 36 * (x / 2)^6 +  
1 / 24^2 * (x / 2)^8}, {x, 0, 5}]
```



```
Plot[{BesselJ[0, x]}, {x, 0, 10}]
```



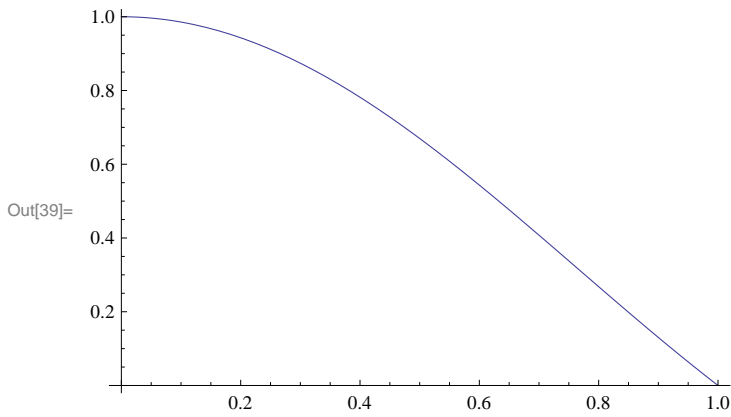
```
In[18]:= FindRoot[BesselJ[0, x] == 0, {x, 2.2}]  
FindRoot[BesselJ[0, x] == 0, {x, 5.5}]  
FindRoot[BesselJ[0, x] == 0, {x, 8.8}]
```

Out[18]= {x → 2.40483}

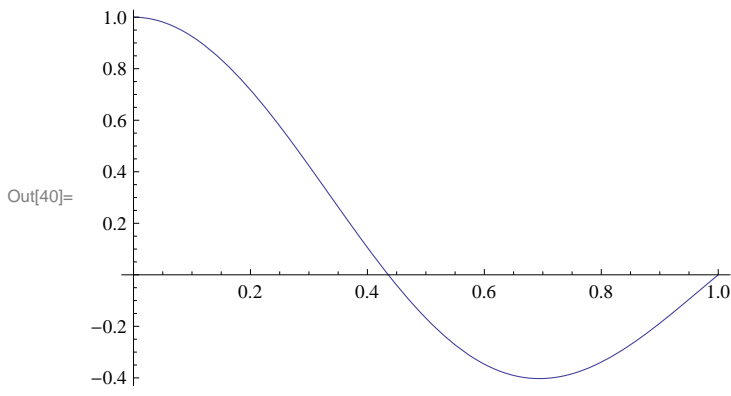
Out[19]= {x → 5.52008}

Out[20]= {x → 8.65373}

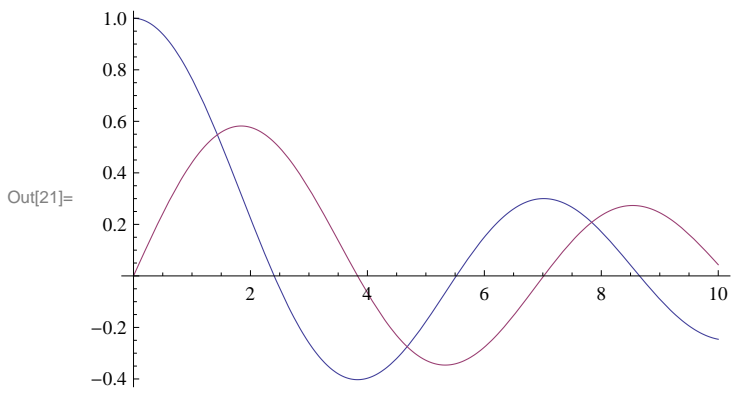
In[39]:= `Plot[BesselJ[0, x * 2.40483], {x, 0, 1}]`



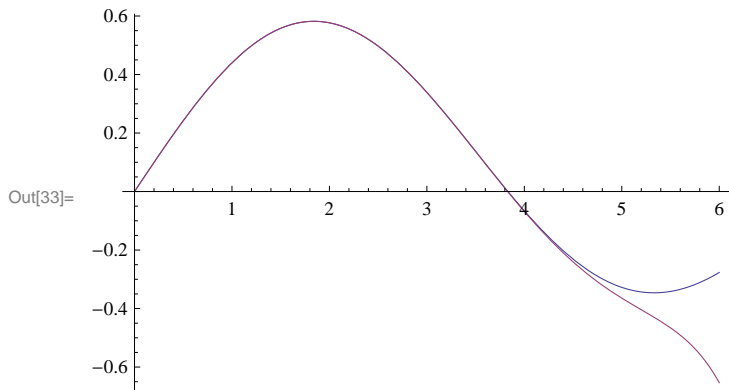
In[40]:= `Plot[BesselJ[0, x * 5.52008], {x, 0, 1}]`



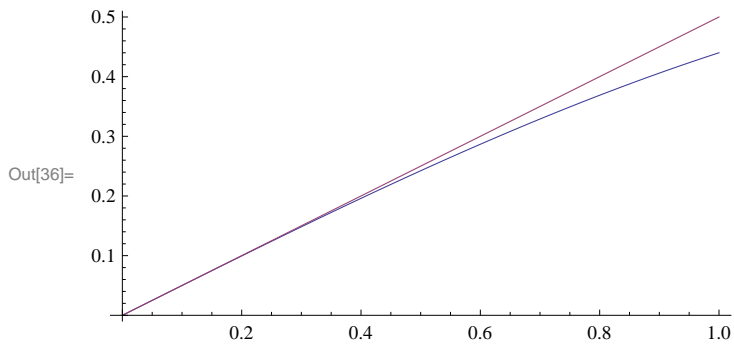
In[21]:= `Plot[{BesselJ[0, x], BesselJ[1, x]}, {x, 0, 10}]`



```
In[33]:= Plot[{BesselJ[1, x], (x/2) - 1/(1!*2!)*(x/2)^3 + 1/(2!*3!)*(x/2)^5 -
  1/(3!*4!)*(x/2)^7 + 1/(4!*5!)*(x/2)^9 -
  1/(5!*6!)*(x/2)^11}, {x, 0, 6}]
```



```
In[36]:= Plot[{BesselJ[1, x], .5 * x}, {x, 0, 1}, AspectRatio -> Automatic]
```



```
In[22]:= Plot[{BesselJ[0, x], BesselJ[1, x], BesselJ[2, x]}, {x, 0, 10}]
```

