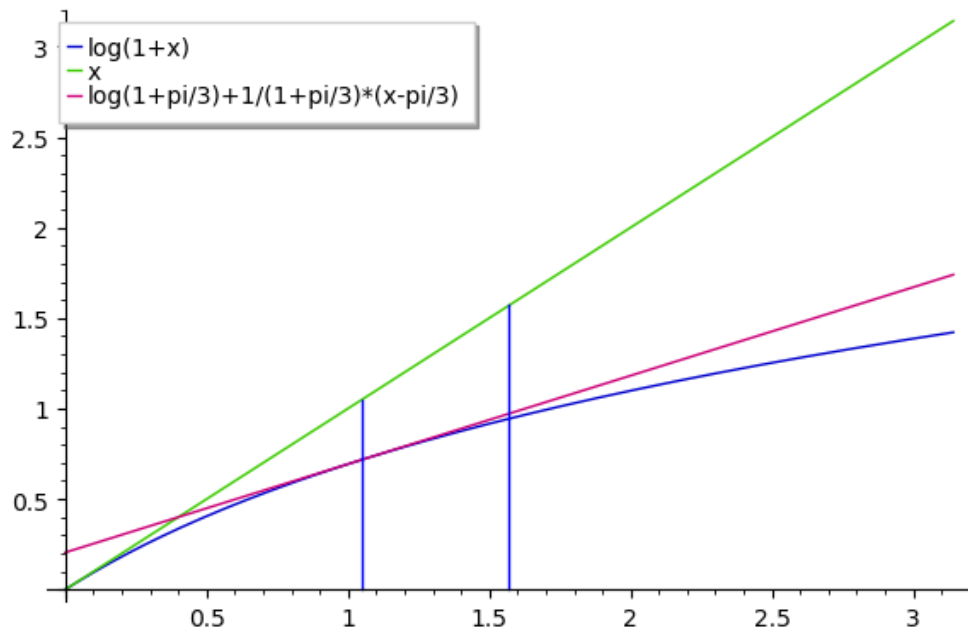


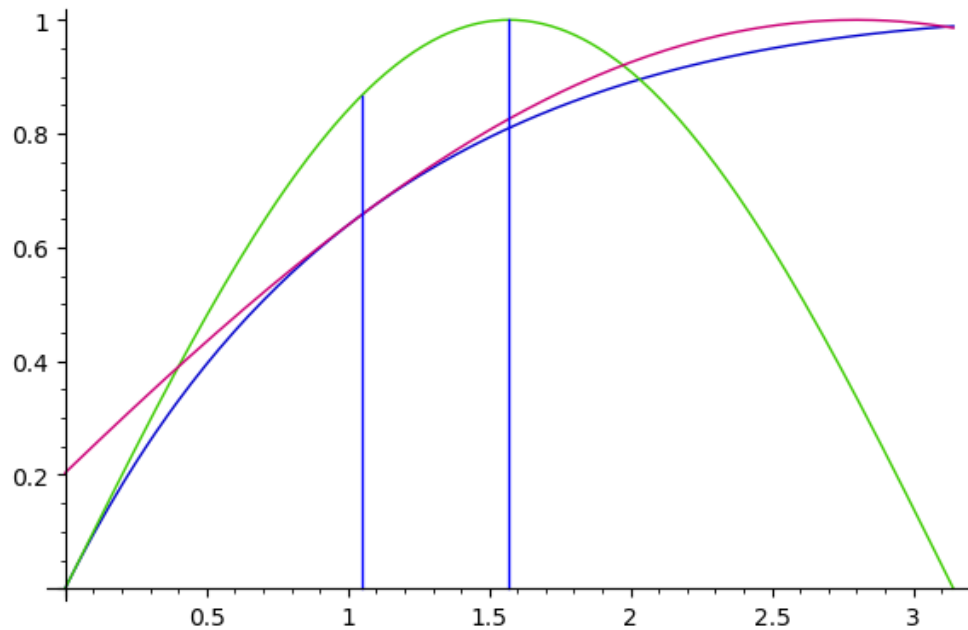
```
In [17]: plot([log(1+x),x,log(1+pi/3)+1/(1+pi/3)*(x-pi/3)],0,pi,legend_label=['log(1+x)',
'x', 'log(1+pi/3)+1/(1+pi/3)*(x-pi/3)']+line([(pi/3,0),(pi/3,pi/3)]+line([(pi/2,
0),(pi/2,pi/2)]))
```

Out[17]:



```
In [16]: plot([sin(log(1+x)),sin(x),sin(log(1+pi/3)+1/(1+pi/3)*(x-pi/3))],0,pi)+line([(pi/
3,0),(pi/3,sin(pi/3))]+line([(pi/2,0),(pi/2,sin(pi/2))]))
```

Out[16]:



```
In [12]: print integral(sin(log(1+x)),x,pi/3,pi/2).n()
```

Out[12]: 0.387188695583503

```
In [13]: print integral(sin(log(1+pi/3)+(x-pi/3)/(1+pi/3)),x,pi/3,pi/2).n()
```

Out[13]: 0.390346079572758

```
In [15]: print integral(sin(log(1+x)),x)
-1/2*(x + 1)*(cos(log(x + 1)) - sin(log(x + 1)))
```

In [0]: