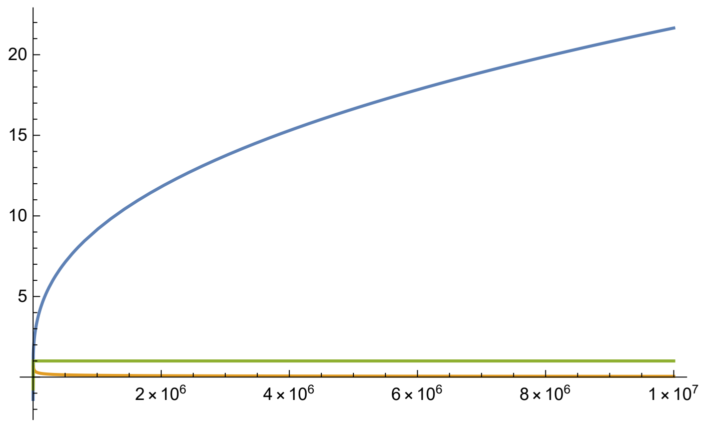
$$\texttt{Plot}\left[\left\{\frac{\sqrt{x}}{\texttt{Log}[x]}\left(\frac{1}{\left(1+\frac{\texttt{Log}[x]}{2}\right)}\right),\ \frac{\texttt{Log}[x]}{\sqrt{x}}\left(1+\frac{\texttt{Log}[x]}{2}\right),\ \texttt{Zeta}[x]\right\},\ \{x,\ 0,\ 10\,000\,000\}\right]$$



$\texttt{a} = \pi;$

$$\frac{\sqrt{a}}{\texttt{Log}[a]}\left(\frac{1}{\left(1+\frac{\texttt{Log}[a]}{2}\right)}\right)\ \texttt{// N}$$

$$\frac{\texttt{Log}[a]}{\sqrt{a}}\left(1+\frac{\texttt{Log}[a]}{2}\right)\ \texttt{// N}$$

0.984733

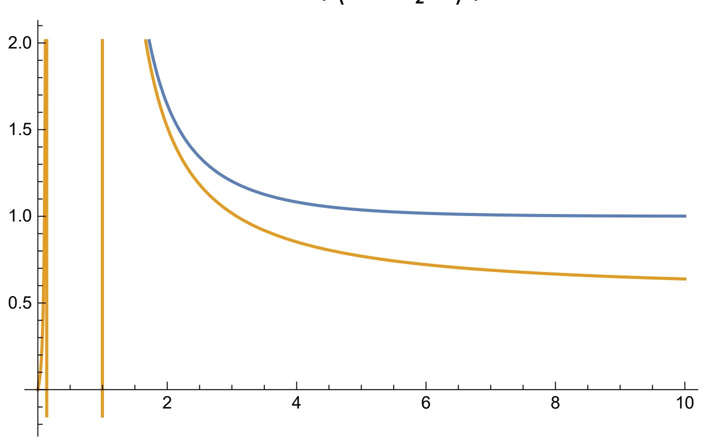
1.0155

Close apprximations? Maybe for real function both = 1 at a = pi?

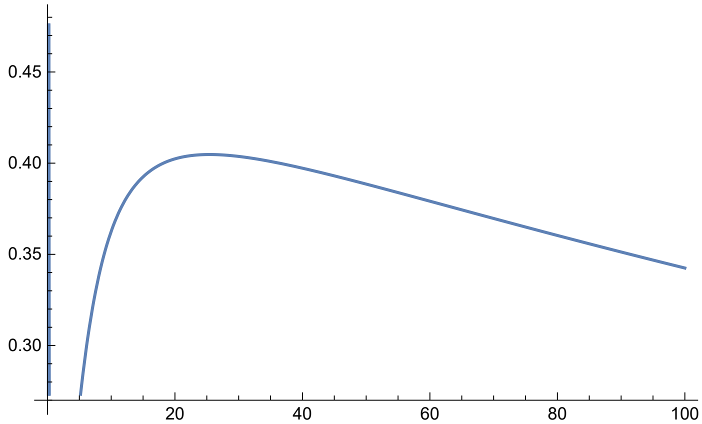
$\texttt{E}\string^\left(2\ \texttt{EulerGamma}\right)\ \texttt{// N}$

3.17222

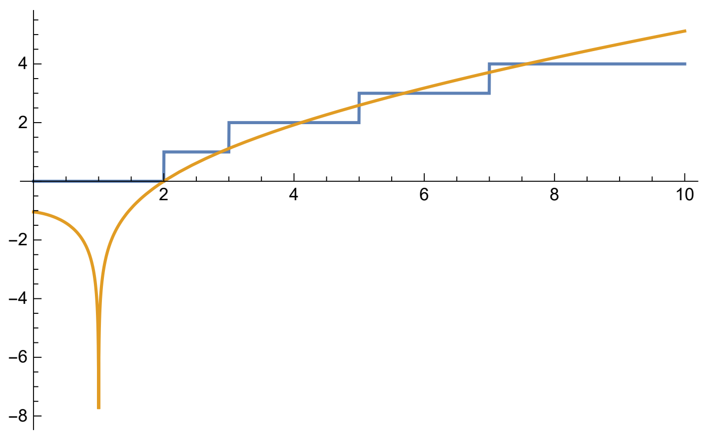
$$\texttt{Plot}\left[\left\{\texttt{Zeta}[x],\ \frac{\sqrt{x}}{\texttt{Log}[x]}\left(\frac{1}{\left(1+\frac{\texttt{Log}[x]}{2}\right)}\right)\right\},\ \{x,\ 0,\ 10\}\right]$$



$$\text{Plot}\left[\left\{\text{Zeta}[x] - \frac{\sqrt{x}}{\text{Log}[x]}\left(\frac{1}{\left(1 + \frac{\text{Log}[x]}{2}\right)}\right)\right\}, \{x, 0, 100\}\right]$$




```
Plot[{PrimePi[x], LogIntegral[x] - LogIntegral[2]}, {x, 0, 10}]
```




```
EulerGamma // N
```

0.577216

```
LogIntegral[2] // N
```

1.04516