A2b Exponential behavior

Some check, trusting that Mathematica has it right.

In[ ]:=
```
Clear[kap, s, tau]
tau^(-kap) E^(tau/2) WhittakerW[kap, s, tau]
Series[%, {tau, Infinity, 2}]
```

Out[ ]= $e^{tau/2}\, tau^{-kap}\, \text{WhittakerW}[kap, s, tau]$

Out[ ]= $$1+\frac{\left(\frac{1}{2}-kap+s\right)\times\left(-\frac{1}{2}+kap+s\right)}{tau}+\frac{1}{32\, tau^2}(-3+2\,kap-2\,s)\times(-1+2\,kap-2\,s)\times(-3+2\,kap+2\,s)\times(-1+2\,kap+2\,s)+O\left[\frac{1}{tau}\right]^3$$

In[ ]:=
```
-E^(Pi I kap) tau^kap E^(-tau/2) WhittakerV[kap, s, tau] /. Whsub
Series[%, {tau, Infinity, 2}] // FullSimplify
```

Out[ ]= $$-e^{i\, kap\, \pi-\frac{tau}{2}}\, tau^{kap}\left(-\frac{i\, e^{-i\,\pi\, s}\,\pi\,\text{Csc}[2\,\pi\, s]\,\text{WhittakerM}[kap, -s, tau]}{\text{Gamma}[1-2\, s]\,\text{Gamma}\left[\frac{1}{2}+kap+s\right]}+\frac{i\, e^{i\,\pi\, s}\,\pi\,\text{Csc}[2\,\pi\, s]\,\text{WhittakerM}[kap, s, tau]}{\text{Gamma}\left[\frac{1}{2}+kap-s\right]\text{Gamma}[1+2\, s]}\right)$$

Out[ ]= $$e^{-tau+i\, kap\,\pi+O\left[\frac{1}{tau}\right]^3}\, tau^{2\, kap}\, O\left[\frac{1}{tau}\right]^3+\left(1+\frac{\frac{1}{4}+kap+kap^2-s^2}{tau}+\frac{1}{32\, tau^2}(1+2\,kap-2\,s)\times(3+2\,kap-2\,s)\times(1+2\,kap+2\,s)\times(3+2\,kap+2\,s)+O\left[\frac{1}{tau}\right]^3\right)$$