Planck equation

The Planck equation is dependent on temperature and frequency (ν). Different temperature and spectral regions can be simplified by approximations.

1. Plot the Planck curves for three different temperatures (288 K, 1500 K, 5800 K) in one figure with frequency on the X-axis.
2. Overplot the Rayleigh-Jeans ($\nu \rightarrow 0$) and the Wien's ($\nu \rightarrow \infty$) approximations for the three given temperatures.
3. Interpret the figure with respect to applicability of the approximations.