Planck law

$$u(\lambda,T) = \frac{8\pi hc}{\lambda^5\left(e^{\frac{hc}{\lambda k_B T}}-1\right)}$$

or $$u(f,T) = \frac{8\pi h f^3}{c^3\left(e^{\frac{hf}{k_B T}}-1\right)}$$

Computer assignment:

Plot $u(\lambda,T)$ vs. λ @

T = 1000 K

1500 K

2000 K

2500 K

verify Wien's displacement law graphically!