$$\eta(\tau) = -\frac{3\tau^{3}}{2\pi^{2}} \int_{0}^{\infty} \frac{x^{3-1}}{e^{x}} = -\frac{9\tau^{3}}{2\pi^{2}} \operatorname{Li}_{3}(e^{-u/\tau}) \operatorname{P}(3)$$

$$\eta(\tau) = -\operatorname{Li}_{3}(e^{-u/\tau}) \operatorname{P}(3) \underbrace{9\tau^{3}}_{2\pi^{2}}$$

$$\eta(\tau) = -\operatorname{Li}_{3}(e^{-u/\tau}) \operatorname{P}(3) \underbrace{9\tau^{3}}_{2$$

following similar procedure as allowe,

$$\rho(\tau) = \frac{1}{2\pi^{2}} \int_{0}^{2\pi} \frac{1}{e^{y}} \frac{1}{e^{$$