

FORMULA SHEET

1021

EXAM #1 AST 2037, SECT ~~1201~~
FRI, SEAT 14, 2012

$$p^2 = a^3$$

$$A^2 (m_s + m_p) = a^3$$

$$m_p = m_r$$

$$d = 250,000 \lambda / a$$

$$I = \sigma T^4$$

$$\lambda_{\max} \propto \frac{1}{T}$$

$$F = ma$$

$$F = G m_1 m_2 / r^2$$

$$e = c/a$$

$$2.5^5 = 100$$

$$B_1 / B_2 = 2.5^{(m_2 - m_1)}$$

$$I_1 / I_2 = R_2^2 / R_1^2$$

$$M = m + 5 - 5 \log r$$

$$r = \frac{1}{f}, \quad p = \frac{1}{r}$$

$$\Delta \lambda / \lambda_0 = v_R / c, \quad \Delta \lambda = |\lambda - \lambda_0|$$

$$E = hf = hc / \lambda$$

$$c = \lambda f$$