6.2 $B_1 B_2 = ?$ $\quad h = 48 \quad A_1 = 3 \quad A_2 = 2 \quad K = 1$

$$h = mK - 1 \Rightarrow m = 49$$

$$\bar{\omega} = B_1 - (mK-1)B_2 \Rightarrow \bar{\omega} = B_1 - 48B_2$$

$$(mK-1)A_2B_2 = m + .81\, m^{1/3}$$

$$hA_2B_2 = m + .81\, m^{1/3}$$

$$B_2 = \frac{m + .81\, m^{1/3}}{hA_2} = \frac{49 + .81(49)^{1/3}}{48.2} = .54$$

$$\boxed{B_2 = .54}$$

$$A_j = 3: \max_{\omega} \left[J_1(A_1, \bar{\omega}) e^{-\bar{\omega}^2/2} \right] \approx .5$$

$$\bar{\omega} = B_1 - 48B_2 \Rightarrow B_1 = \bar{\omega} + 48B_2$$
$$= .5 + 48 \cdot .54$$

$$\boxed{B_1 = 26.42}$$

$$\sigma_\eta \approx \sqrt{\sigma_\eta^2 + \eta^2/2}$$