

B/60

Part 1: $m_1 = m/4$

$$I_{xy} = \frac{m}{4} \left(\frac{b}{2} \right) (-b) = -\frac{1}{8} m b^2$$

$$I_{yz} = 0, I_{xz} = 0$$

Part 2: $m_2 = m/2$

$$I_{xy} = 0, I_{yz} = 0, I_{xz} = 0$$

Part 3: $m_3 = m/4$

$$I_{xy} = 0, I_{xz} = 0$$

$$I_{yz} = \frac{m}{4} (b) \left(-\frac{b}{2} \right) = -\frac{1}{8} m b^2$$

Combined: $\underline{I_{xy} = -\frac{1}{8} m b^2}, \underline{I_{xz} = 0}, \underline{I_{yz} = -\frac{1}{8} m b^2}$

