



$$\bar{X} = \frac{\sum A \bar{x}}{\sum A} = \frac{50(200)(-25) + 150(200)(75) + \frac{1}{2}(100)(200)(150 + \frac{100}{3})}{50(200) + 150(200) + \frac{1}{2}(100)(200)}$$

$$\bar{X} = 76.7 \text{ mm}$$

$$\bar{Y} = \frac{\sum A \bar{y}}{\sum A} = \frac{50(200)(100) + 150(200)(100) + \frac{1}{2}(100)(200)(\frac{200}{3})}{50(200) + 150(200) + \frac{1}{2}(100)(200)}$$

$$\bar{Y} = 93.3 \text{ mm}$$