

Weighted Average

Session 61

$$\bar{x} = \frac{\int_{-1}^3 x(4-(x-1)^2) dx}{\int_{-1}^3 (4-(x-1)^2) dx} = \frac{10\frac{2}{3}}{10\frac{2}{3}} = 1$$

$$\bar{y} = \frac{\int_0^4 y(2\sqrt{y}) dy}{\int_0^4 2\sqrt{y} dy} = 2.4$$