

$$\int_{-3.5}^{3.5} \left(t - \frac{1}{2}\right) dt - \int_{-3.5}^{3.5} [t] dt$$

inter

$$\left(\frac{t^2}{2} - \frac{1}{2}t\right)_{-3.5}^{3.5} + \left\{ \int_{-3.5}^{-3} [t] dt + \int_{-3}^{-2} [t] dt + \int_{-2}^{-1} [t] dt + \int_{-1}^0 [t] dt + \int_0^1 [t] dt + \int_1^2 [t] dt + \int_2^3 [t] dt + \int_3^{3.5} [t] dt \right\}$$

$$= \left[\frac{(3.5)^2}{2} - \frac{1}{2}(3.5) - \frac{(-3.5)^2}{2} - \frac{1}{2}(-3.5) \right] - \left[\int_{-3.5}^{-3} [t] dt + \dots \right]$$

$$= 0 - \left[\int_{-3.5}^{-3} (-4) dt + \int_{-3}^{-2} (-3) dt + \int_{-2}^{-1} (-2) dt + \int_{-1}^0 (-1) dt + \int_0^1 0 dt + \int_1^2 1 dt + \int_2^3 2 dt + \int_3^{3.5} 3 dt \right]$$

$$= - \left[\left(-4t \right)_{-3.5}^{-3} + \left(-3t \right)_{-3}^{-2} + \left(-2t \right)_{-2}^{-1} + \left(-t \right)_{-1}^0 + (0)_{0}^1 + (t)_{1}^2 + (2t)_{2}^3 + (3t)_{3}^{3.5} \right]$$

$$= - \left[-4(-3) - (-4)(-3.5) + (-3)(-2) - (-3)(-3) + (-2)(-1) - (-2)(-2) \right.$$

$$\left. + 0 - (-1)(-1) + 0 + (2-1) + (2 \times 3 - 2 \times 2) + (3 \times 3.5 - 3 \times 3) \right]$$

$$= - [12 - 14 + 6 - 9 + 2 - 4 - 1 + 1 + 6 - 4 + 10.5 - 9]$$

$$= - [-2 - 3 - 3 + 3 + 1.5]$$

3.5 Ans