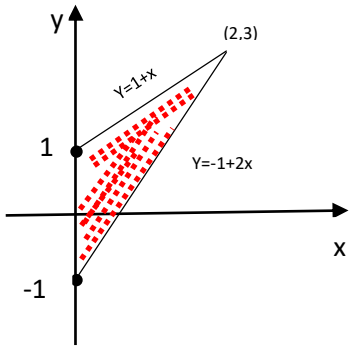


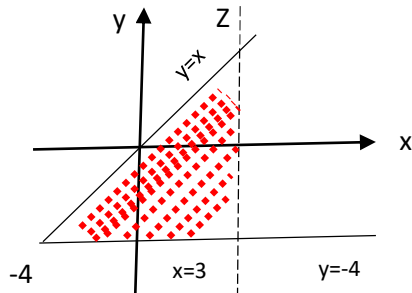
### Integration 3



$$\int_0^2 \{(1+x) - (-1+2x)\} dx =$$

$$= \int_0^2 (2-x) dx = 2x - \frac{x^2}{2} \Big|_0^2 = 2 \cdot 2 - \frac{2 \cdot 2}{2} = 2$$

$$\int_{-2}^{+2} x^3 dx = \frac{x^4}{4} \Big|_{-2}^2 = \frac{2^4}{4} - \frac{2^4}{4} = 0$$



$$\int_{-4}^3 \{x - (-4)\} dx = \int_{-4}^3 (x+4) dx = \left[ \frac{x^2}{2} + 4x \right]_{-4}^3 =$$

$$\frac{3^2}{2} + 4 \cdot 3 - \left[ \frac{16}{2} + (4 \cdot (-4)) \right] = \frac{9}{2} + 12 - (-8) = 24 \frac{1}{2}$$