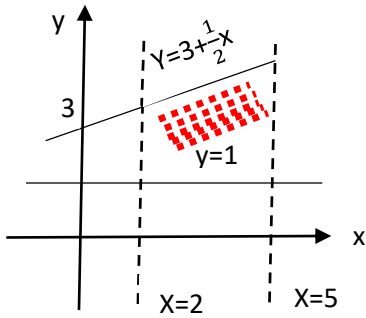
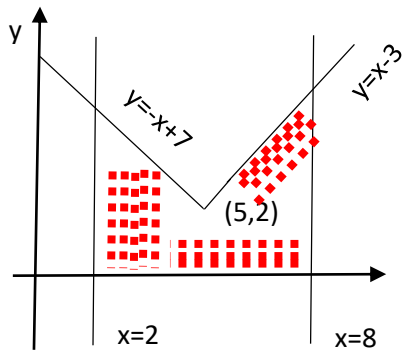


Integration 2



$$\begin{aligned} \int_2^5 (3 + \frac{1}{2}x - 1) dx &= \int_2^5 (2 + \frac{1}{2}x) dx \\ &= 2x + \frac{1}{2} \cdot \frac{x^2}{2} \Bigg|_2^5 = (2.5 + \frac{1}{4} \cdot 5^2) - (2.2 + \frac{1}{4} \cdot 2^2) \\ &= 10 + 6\frac{1}{4} - 5 = 11\frac{1}{4} \end{aligned}$$



$$\begin{aligned} \int_2^5 (-x + 7) dx + \int_5^8 (x - 3) dx &= \\ -\frac{x^2}{2} + 7x \Bigg|_2^5 + \left(\frac{x^2}{2} - 3x \right) \Bigg|_5^8 &= \end{aligned}$$

$$10.5 + 10.5 = 21$$