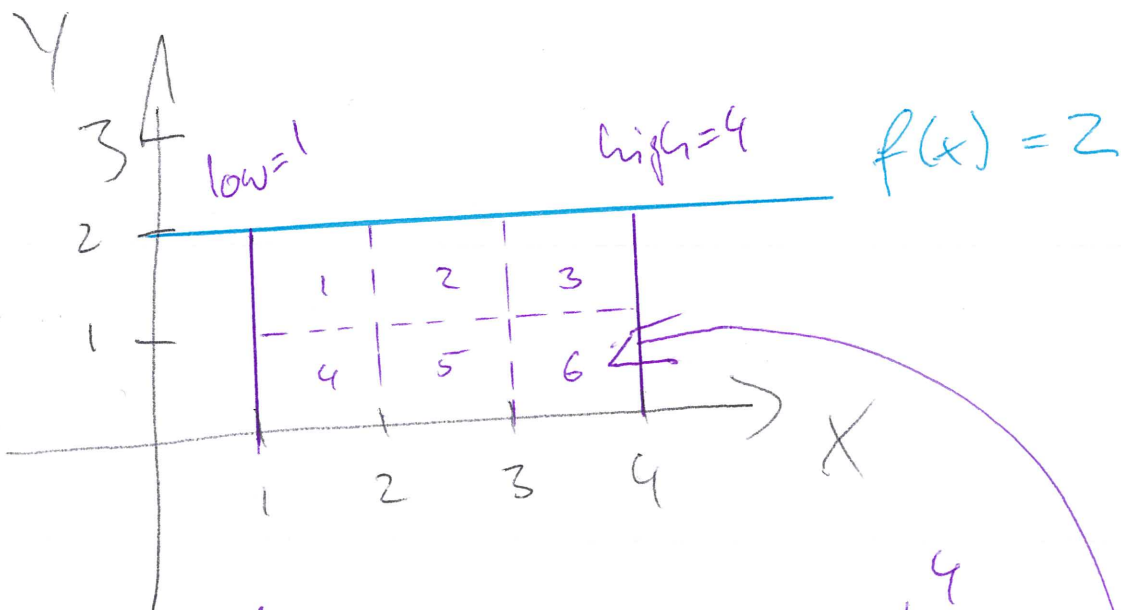
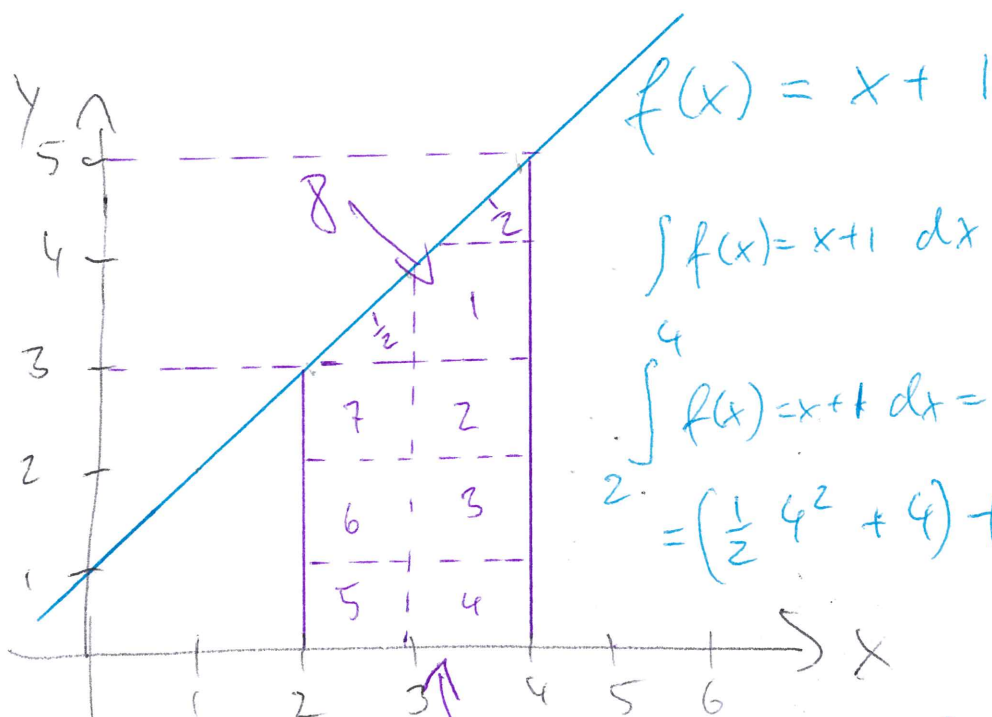


Simple integrals



$$\int_1^4 f(x)=2 \, dx = 2x \Big|_1^4$$

$$2x \Big|_1^4 = 2 \times 4 - 2 \times 1 = 8 - 2 = \boxed{6}$$



$$\int f(x)=x+1 \, dx = \frac{1}{2}x^2 + x$$

$$\int_2^4 f(x)=x+1 \, dx = \frac{1}{2}x^2 + x \Big|_2^4$$

$$= \left(\frac{1}{2}4^2 + 4 \right) - \left(\frac{1}{2}2^2 + 2 \right)$$

$$= 12 - 4 = \boxed{8}$$