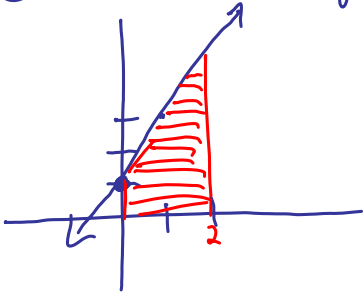


25.3

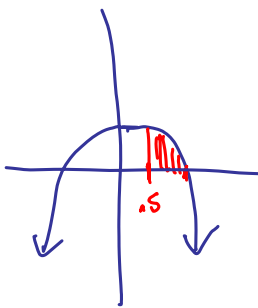
p.745

(16) Area under $y=2x+1$ between $x=0$ and $x=2$.



$$\begin{aligned} \text{Area} &= \int_0^2 2x+1 \, dx \\ &= 2\frac{x^2}{2} + x \Big|_0^2 = x^2+x \Big|_0^2 \\ &= (2^2+2) - (0) = 6 \end{aligned}$$

(20) $y=1-x^2$ between $x=0.5$ and $x=1$



$$\begin{aligned} \text{Area} &= \int_{.5}^1 1-x^2 \, dx \\ &= x - \frac{x^3}{3} \Big|_{.5}^1 \\ &= \left(1 - \frac{1^3}{3}\right) - \left(.5 - \frac{(.5)^3}{3}\right) \approx .2083 \end{aligned}$$

p.748: 17, 19, 21, 23, 25, 29, 30

p.745: 15, 17, 19