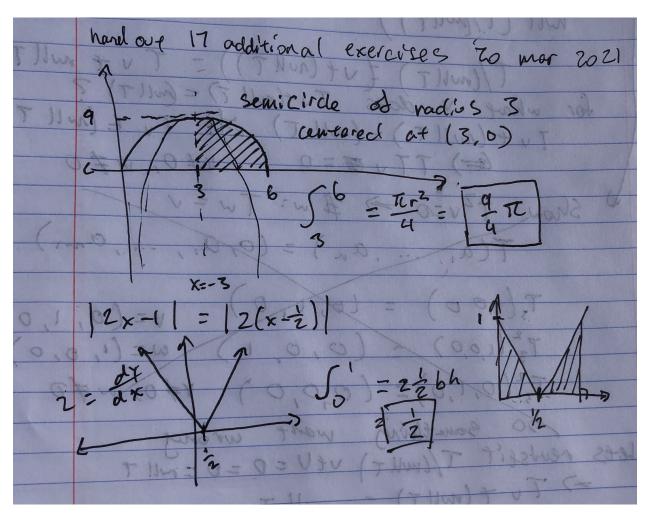
1 | Exercises

1.1 | interpreting in terms of area



1.3 | subtracting integrals

I expect

$$\int_{1}^{2} f(x)dx = \int_{1}^{5} f(x)dx - \int_{2}^{5} f(x)dx = -3 - 4 = -7$$

In fact, I expect

$$\int_{a}^{b} f(x)dx + \int_{b}^{c} f(x)dx = \int_{a}^{c} f(x)dx$$

1.4 | show
$$\int_a^b x^2 dx = \frac{b^3 - a^3}{3}$$

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