NCEA Level 3 Calculus (Integration)

17. The Fundamental Theorem of Calculus (Homework)

Reading

Go and watch...

https://www.youtube.com/watch?v=FnJqaIESC2s

Questions

1. Evaluate

$$\int_{0}^{\frac{\pi}{4}} \sec^{2} \theta \, \mathrm{d}\theta$$

- 2. If $\int_1^3 f(x) dx = 7$ and $\int_2^3 f(x) dx = -3$, what is the value of $\int_1^2 f(x) dx$?
- 3. Find the area enclosed between the graphs of $3y = x^2$ and y = 2x.