



Examples 8.4 – The Fundamental Theorem of Calculus (Part 1)

1. Use the FTC to evaluate $\int_1^9 \frac{3}{\sqrt{t}} dt$.

Solution: $\int_1^9 \frac{3}{\sqrt{t}} dt =$

2. If g is a function such that $g(2) = 10$ and $g(5) = 14$, then what is the net area bounded by g' on the interval $[2, 5]$?

Solution:

3. Explain why we cannot use the FTC to evaluate $\int_{-1}^1 \frac{1}{x^2} dx$?

Solution: