

Part 2

1) $\int_3^6 \frac{dx}{x} =$

Solve:

2) $\int_0^2 x^2 - 5x + 4 \, dx =$

3) $\int_{-2}^{-1} -4 \, dx =$

4) $\int_0^2 -3x^2 - 2x - 2 \, dx =$

Part 1

5) Find $\frac{d}{dx} \int_2^x -4t^3 + 3 \, dt$

6) Find $\frac{d}{dx} \int_1^x \tan(t) \, dt$

7) Find $\frac{d}{dx} \int_3^x -5t^3 - 2t^2 - 4t - 4 \, dt$

8) Find $\frac{d}{dx} \int_0^{2x} 3t + 1 \, dt$

9)

$$A(x) = \int_{-3}^x -2t + 2 \, dt$$

Find $A'(-2)$

10)

$$\text{Find } \frac{d}{dx} \int_1^x \sec(t) \, dt$$

11)

$$A(x) = \int_{-3}^x -3t^2 - 3t + 1 \, dt$$

Find $A'(2)$

12)

$$A(x) = \int_0^{x^2} t + 1 \, dt$$

Find $A'(2)$