



# Method of Substitution for Integration with Radicals

## Worksheet 2

To view the **lesson notes**, **tutorial(s)** and **answer key** scan the **QR Code** in the upper right hand corner or **click on the link in the header** of this page.

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### Question 1

Using the substitution of your choice, find:  $\int 5x\sqrt{x-2} . dx$



## Question 2

Using the substitution of your choice, find  $\int 10x^4 \sqrt{2x+8} \cdot dx$



## Question 3

Using the substitution of your choice, find  $\int (3x + 1) \sqrt{\frac{x + 3}{2}} \cdot dx$



## Question 4

Using the substitution of your choice, find  $\int (x^2 + 1) \sqrt{x - 5} . dx$



## Question 5

Using the substitution of your choice, find  $\int (x^2 + 2x) \sqrt[3]{\frac{x-1}{2}} \cdot dx$