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**Matric no: 19/ENG05/042**

**Department: Mechatronics**

**Course Code: MAT 104**

**Course Tittle: Mathematics III**

**Lecturer’s Name: Dr oyelami**

**MAT 104 ASSIGNMENT**

1. dx ($x^{2}$ + 7)

Solution

$⨜(x^{2}+7)$dx

 = $\frac{x^{2+1}}{3}+7x$

 = $\frac{x^{3}}{3}+7x+c$ (multiply through by 3)

 **=** $x^{3 }$**+21x + c**

 2 . dx($x^{2}+64)$

 **Solution**

 ⨜($x^{2}+64$)dx

= $\frac{x^{2+1}}{3}+64x$ = $\frac{x^{3}}{3}+64x+c$ (multiply through by 3)

= $x^{3}+3\left(64x\right)+ c$

= $x^{3}+192x+c$