# **Unit 8: Integration**

## **Subunit 8.2: Constant of integration**

### Topical Question No: 1

1

A curve with equation $y = f(x)$ is such that $f'(x) = 2x^{-\frac{1}{3}} - x^{\frac{1}{3}}$ . It is given that $f(8) = 5$ .	
Find $f(x)$ .	[4]

### Topical Question No: 2

2


### Topical Question No: 3

Find the equation of the curve		