

# **CHAPTER-13 - Integration**

#### Exercise-13A

## Q1.

Put 
$$2x + 9 = t \Rightarrow 2 dx = dt$$

$$\int t^5 \left(\frac{dt}{2}\right) = \frac{1}{2} \int t^5 dt = \frac{1}{2} \frac{t^6}{6} + c = \frac{t^6}{12} + c$$

$$= \frac{(2x+9)^6}{12} + c$$
Where C is constant of integration

## Q2.

Put 
$$7 - 3x = t \Rightarrow -3 dx = dt$$
  

$$I = \int t^4 \left(\frac{dt}{-3}\right) = \frac{1}{-3} \int t^4 dt = \frac{1}{-3} \frac{t^2}{5} + c = -\frac{t^5}{15} + c$$

$$= \frac{(7-3x)^5}{15} + c$$

Where C is constant of integration

## Q3.

Put 
$$3x - 5 = t \Rightarrow 3 dx = dt$$
  
=  $\int t^{0.5} \left(\frac{dt}{3}\right) = \frac{1}{3} \int t^{0.5} dt = \frac{1}{3} \times \frac{t^{1.5}}{1.5} + c = \frac{2}{1} \times \frac{t^{1.5}}{9} + c$ 

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**Michael Seilmaier** 

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