

## Learning Unit 2 – Integrals and Integration

### Activity 2

Solve for the integral of the following functions by applying the different integral formulas.

1.  $\int -15 \, dt$

2.  $\int e \, dx$

3.  $\int x^4 \, dx$

4.  $\int t^{\frac{2}{3}} \, dt$

5.  $\int x^{-10} \, dx$

6.  $\int -\frac{2}{5} \, dx$

7.  $\int \frac{4}{3} x^7 \, dx$

8.  $\int -15x^2 \, dx$

9.  $\int (4x^3 - 6x^2 + 8x + 12) \, dx$

10.  $\int (x^4 - x^2 - 14x - 1) \, dx$

11.  $\int -3x^5 \, dx$

12.  $\int -\frac{1}{2} x^3 \, dx$

13.  $\int (10x + 3) \, dx$

14.  $\int (-12x^4 + 9x^2 + 2x - 7) \, dx$

15.  $\int (8x^5 - 10x^4 - 16x^3 + 20x - 5) \, dx$

16.  $\int (10x^4 - 4x^2 - 14x + 12) \, dx$

17.  $\int (x^3 - 9x^2 - 3x - 1) \, dx$

18.  $\int (5x^4 - 8x^3 - 3x + 10) \, dx$

19.  $\int (x^4 + 12) \, dx$

20.  $\int (21x^2 - 12x - 5) \, dx$