CALCULUS WORKSHEET

Answer the following integrals:

1. $\int (x^4 - x^3 + x^2)dx$

2. $\int (5t^8 - 2t + t + 3)dt$

3. $\int \frac{3}{x}dx$

4. $\int (2sin\theta + 3cos\theta)d\theta$

5. $\int (5e^x - e)dx$

Answer Sheet:

1. $\frac{1}{5}x^5 - \frac{1}{4}x^4 + \frac{1}{3}x^3 + C$

2. $\frac{5}{9}t^9 - \frac{2}{5}t^5 + \frac{1}{2}t^2 + 3t + C$

3. $3\ln|x| + C$

4. $-2\cos\theta + 3\sin\theta + C$

5. $5e^x - ex + C$