

**Quick Hit 5.2 (1)**

1. Compute the following

(a)  $\int e^x dx$

(b)  $\int x^e dx$

(c)  $\int (6x^2 + 1)e^{2x^3+x} dx$

(d)  $\int \frac{-4x + 3}{-2x^2 + 3x + 1} dx$