3. Evaluate $\int \frac{2x+3}{(x^2+3x-1)^5} dx$.

$$u = x^{2} + 3x - 1$$

$$du = (2x + 3) dx$$

$$\int \frac{2x + 3}{(x^{2} + 3x - 1)^{5}} dx = \int \frac{1}{u^{5}} du = \int u^{-5} du$$

$$= \frac{1}{-4} u^{-4} + C$$

$$= -\frac{1}{-4} (x^{2} + 3x - 1)^{-4} + C$$

$$= \frac{1}{-4} (x^{2} + 3x - 1)^{-4} + C$$

4. Evaluate $\int -4\cos^3(x)\sin(x)dx$.

$$\int -4\cos^3(x) \sin(x) dx$$

$$= \int 4u^3 du$$

$$= u^4 + c$$

$$= \cos^4(x) + c$$