

$$\int q \cdot x^n + \frac{A}{(x-x_i)^m} dx = q \cdot \frac{1}{n+1} x^{n+1} + C_1 + A \cdot \int (x-x_i)^{-m} dx = q \cdot \frac{1}{n+1} x^{n+1} + A \cdot \frac{1}{1-m} (x-x_i)^{1-m} + C$$