$$Rm1 = -\frac{1}{2} i k dx$$

$$-\frac{1}{2}idxk$$

$$Rm2 = \frac{k^2 dx^2}{12}$$

$$\frac{dx^2 k^2}{12}$$

$$Rm3 = -\frac{1}{12} i k^3 dx^3$$

$$-\frac{1}{12} i dx^3 k^3$$