Интегрирование, часть 4, практическая часть

8.4.2.
$$\int \frac{\sqrt[3]{k}dx}{(\sqrt{k^2-k})^2} = [n = 3, q = 2 \to k = H0K(3,2) = 6 \to x = t^6 \to 6t^5dt] = \int \frac{\sqrt[3]{k^2+6}dt}{\sqrt[3]{(k^2-k)^2}} = 6\int \frac{t^2dt}{t^2-1} = \frac{t^2dt}$$

$$\frac{24 \binom{6\sqrt{x}}{15}}{15} + \frac{36 \binom{6\sqrt{x}}{13}}{13} + \frac{24 \binom{6\sqrt{x}}{11}}{11} + \frac{2 \binom{6\sqrt{x}}{2}}{3} + C = \frac{6}{17} * x^2 \sqrt[6]{x^5} + \frac{8}{5} * x^2 \sqrt{x} - \frac{36}{13} * x^2 \sqrt[6]{x} + \frac{24}{11} * x \sqrt[6]{x^5} + \frac{2}{3} * x * \sqrt{x} + C$$