## MINI EXAMEN 1

$$2\int \left(\frac{3x^{3}+5x^{4}+9x^{6}}{3x^{3}}\right)^{3} = \frac{1}{3}\left[\int \left(\frac{x^{2}(3x+5x^{2}+9x^{4})}{3x^{7}}\right) dx = \frac{1}{3}\left[\int \frac{3x^{4}+5x^{2}+9x^{4}}{3x^{5}} dx + \frac{1}{3}\int \frac{5x^{2}}{x^{5}} dx + \frac{1}{3}\int \frac{9x^{4}}{x^{5}} dx + \frac{1}{$$

$$= \frac{1}{3} \left[ -\frac{7}{3x^3} - \frac{5}{2x^2} + 9 \ln|x| \right] + c$$