

Uppgift E 5.6b

$$\begin{aligned}\int x^5 \cos x^3 dx &= \frac{1}{3} \int \underbrace{x^3}_{\downarrow} \cdot \underbrace{3x^2 \cos x^3}_{\uparrow} dx = \frac{1}{3} \left[x^3 \sin x^3 - \int 3x^2 \sin x^3 dx \right] = \\ &= \frac{1}{3} [x^3 \sin x^3 + \cos x^3] + C.\end{aligned}$$