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Opgave 354

Opgave A)

$$\int x^5 dx = \frac{1}{6}x^6 + k$$

Opgave B)

$$\int \frac{1}{x^5} dx = \frac{1}{-4}x^{-4} + k$$

Opgave C)

$$\int \sqrt[5]{x} dx = \int x^{\frac{1}{5}} dx = \frac{1}{1 + \frac{1}{5}} x^{1 + \frac{1}{5}} + k = \frac{5}{6} x^{\frac{6}{5}} + k$$

Opgave D)

$$\int \frac{1}{\sqrt[5]{x}} dx = \int x^{-\frac{1}{5}} = \frac{1}{1 - \frac{1}{5}} x^{1 - \frac{1}{5}} + k = \frac{5}{4} x^{\frac{4}{5}} + k$$