Calculus I

Indefinite integral of rational monomial, part 1

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Example

Integrate.

$$\int 5x^{\frac{3}{2}} dx = 5\frac{x^{\frac{3}{2}+1}}{\frac{3}{2}+1} + C$$

$$= 5\frac{x^{\frac{5}{2}}}{\frac{5}{2}} + C$$

$$= 2x^{\frac{5}{2}} + C$$