

DC 9

1. Calculer les intégrales suivantes :

$$\int_{\frac{\pi}{3}}^{\frac{\pi}{2}} \tan(t) dt =$$

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$$I = \int_0^{\pi} \sin^4(x) \cos^2(x) dx$$

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$$\int_0^{\frac{\pi}{2}} \sin(t) e^{-2t} dt =$$

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$$\int_{-1}^1 \frac{t-1}{t^2+t+2} dt = \dots\dots\dots$$

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$$\int_0^{\frac{3}{2}} \sqrt{9-4t^2} dt = \dots\dots\dots$$

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Ex 1. Déterminer une primitive de *Arctan* sur $\mathbb{R}$.

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