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Homework 26

The due date for this homework is Tue 7 May 2013 12:00 AM EDT.

Question 1

$$\int_{x=-1}^{1} \frac{dx}{1+x^2} =$$

- $^{\circ}$ π
- \bigcirc (
- \circ $\frac{\pi}{3}$
- 2π
- \circ $\frac{\pi}{4}$
- \circ $\frac{\pi}{2}$

Question 2

$$\int_{x=0}^3 5x \sqrt{x+1}\, dx =$$

- ₀ 30
- \bigcirc $12\sqrt{3}$
- $-\frac{116}{3}$
- 0
- $-12\sqrt{3}$

Question 3

$$\int_{x=-\pi}^{\pi} \frac{d}{dx} (x \cos x) \, dx =$$

- $\cos x x \sin x + C$
- $^{\circ}$ 2π
- $x \cos x + C$
- 0
- -2π

Question 4

$$rac{d}{dx}\int_{x=-\pi}^{\pi}x\cos x\,dx=$$

- $x \cos x + C$
- -2π
- $\cos x x \sin x + C$
- o C
- 2π

Question 5

$$\frac{d}{dx} \int_{t=0}^{x} \cos t \, dt =$$

- $\cos x$
- $\sin x 1$

- $0 1 \cos x$
- $0 1 \sin x$
- $\cos x 1$
- $\sin x$

Question 6

$$\frac{d}{dx} \int_{t=\sin x}^{\tan x} e^{-t^2} dt =$$

- 0
- $2(\tan x \sec^2 x \sin x \cos x)e^{-t^2}$
- $\int_{2\sin x \cos x}^{2\tan x \sec^2 x} e^{-t^2} dt$
- $2e^{-\tan^2 x} \tan x \sec^2 x 2e^{-\sin^2 x} \sin x \cos x$
- $e^{-4\tan^2 x \sec^4 x} e^{-4\sin^2 x \cos^2 x}$
- $e^{-\tan^2 x} \sec^2 x e^{-\sin^2 x} \cos x$
- In accordance with the Honor Code, I certify that my answers here are my own work.

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