

CALCULUS

Properties of the definite integral

NEW

Which of the following is true?

a. $\int_{\pi}^{2\pi} \sin^4 x \leq 0$

b. $\int_{\pi}^{2\pi} \sin^4 x \geq 0$

Explain your choice, invoking the properties of integrals.

Which of the following is true?

a. $\int_{-2}^{-3} e^{-x} dx \leq \int_{-2}^{-3} e^{-2x} dx$

b. $\int_{-2}^{-3} e^{-x} dx \geq \int_{-2}^{-3} e^{-2x} dx$

Explain your choice, invoking the properties of integrals.