CÁLCULO II

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1 Ejercicio 6.5-Relación 6. Calcula las siguientes integrales:

ll) $\int_{1/4}^{3/4} \frac{arcsen(x)}{\sqrt[2]{1-x^2}}dx$ t=arcsen(x) dt=$1/\sqrt[2]{1-x^2}dx$ => $\int_{arcsen(1/4)}^{arcsen(3/4)} t \cdot dtdx$ =

$\frac{t^2}{2}\,]_{arcsen(1/4)}^{arcsen(3/4)} = \frac{arcsen^2(3/4)-arcsen^2(1/4)}{2}$

m) $\int_0^{1/2} \frac{1}{\sqrt[2]{20+8x-x^2}}dx = \int_0^{1/2} \frac{dx}{\sqrt[2]{6^2-(x-4)^2}} = \int_0^{1/2} \frac{dx}{\sqrt[2]{1-(\frac{x-4}{6})^2}} = arcsen(\frac{x-4}{6})\,]_0^{1/2} =$
$arcsen(\frac{-7}{6}) = arcsen(\frac{-2}{3})$