

Cal Poly Department of Mathematics

Puzzle of the Week

May 21-27, 2010

Calculate the integral:

$$\int_0^{\frac{\pi}{2}} \frac{dx}{1 + (\tan x)^{\sqrt{5}}}$$

[Hint: $\tan(\pi/2 - u) = \cot(u)$]

Solutions should be submitted to Morgan Sherman:

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before next Friday. Those with correct and complete solutions will have their names listed in next week's email announcement. Anybody is welcome to make a submission.