Problem 2.6

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3 points possible (ungraded)

Compute the following integrals along contour C -- unit circle centered at $z = 0$. Use pi for π and i for imaginary unity

(1)

$\int_C \frac{ze^z}{\tan z^2} dz$

(2)

$\int_C e^{-1/z} \sin\left(\frac{1}{z}\right) dz$

(3)

$$\int_C \frac{e^z}{z^n} dz \quad \text{(for natural} \quad n) = \frac{\square}{\left(\square\right)!}$$

	2	$2\pi i$	πi	n	$n-1$	

Submit You have used 0 of 6 attempts