

< Previous

Next >

Problem 3.10

Bookmark this page

Problem 3.10

2 points possible (ungraded)
Evaluate the principal value of the following integrals.

PV $\int_0^\infty \frac{x^{a-1}}{1-x^b} dx$ for $b > a > 0$

	a	b	π	2π	\cot	\cos	
--	-----	-----	-------	--------	--------	--------	--

PV $\int_0^\infty \frac{x dx}{(x^2+a^2) \sin bx}$ for $a > 0, b > 0$

	π	2	a	b	ab	sh	
--	-------	-----	-----	-----	------	-------------	--

Submit

You have used 0 of 6 attempts