

1 Integrals

1.1 Improper Integral Summary

Integral	$p \leq 1$	$p > 1$	Value
$\int_0^1 \frac{1}{x^p}$	divergent	convergent	$\frac{1}{1-p}$
$\int_1^\infty \frac{1}{x^p}$	divergent	convergent	$\frac{1}{p-1}$