

Online Review Today from 4-6pm, but I honestly do not know why am making the effort. See the next two pages...


This is NOT part of the formula for success.

Improper Integrals $-4 / 3$
Popper 21
Popper 21


$$
\begin{aligned}
& \int_{-1}^{\infty} x^{-4 / 3} d x \text { should be positixe! } \\
& \text { we used the FThm Calic } \\
& \text { incorsectly! The integrand } \\
& \text { must be continuous to use } \\
& \text { aut-differentiation. }
\end{aligned}
$$

## Remark: The previous integral is referred to as an

"Improper" Integral.

## Types of Improper Integrals

$$
\begin{aligned}
\int_{a}^{b} f(x) d x \quad & \int_{-\infty}^{b} f(x) d x \quad \int_{a}^{\infty} f(x) d x \\
& \int_{-\infty}^{\infty} f(x) d x
\end{aligned}
$$

where a limit of integration is infinite and/or the function $f$ has a discontinuity on the interval.






