**VIDEO by Dr. Patcharin T. Marion**

**Transcendental Functions**

Derivatives of Inverse Functions

<https://www.youtube.com/watch?v=20SJE_rwaG0#action=share>

Derivatives of Exponential Functions

<https://youtu.be/tZc51GMOCOE>

<https://youtu.be/3YnwN1HeXIQ>

<https://youtu.be/LdcBo3hno6Q>

Integration of Exponential Functions

<https://youtu.be/NwP7Is0WlN0>

**Integration Techniques**

Integration by parts

<https://youtu.be/xkXer9Sr7jg>

<https://youtu.be/CTeVP0y_dNc>

<https://youtu.be/07w_F0af0z0>

Integrating Products and Powers of sin x and cos x

<https://youtu.be/gCNeTzaV1tE>

<https://youtu.be/6hq7o7LpKMc>

<https://youtu.be/8WlGKitvQV0>

<https://youtu.be/VYefVv82wLI>

**Sequences and Series**

Infinite Series

<https://youtu.be/4ldY-bb0z-E>

Geometric Series

<https://youtu.be/WgLBLqWdPhY>

Telescoping Series

<https://youtu.be/oZbuCwtwtSE>

p-Series

<https://youtu.be/DJF0USR2_uw>

Comparison Tests

<https://youtu.be/PBd70A5Wq-I>

Limit Comparison Tests

<https://youtu.be/lRQLg4SLXgg>

<https://youtu.be/2uNw-XtAVTw>

Absolute and Conditional Convergence

<https://youtu.be/OOCjy5rgNnw>

<https://youtu.be/mthexllACDk>

<https://youtu.be/EDmB_e4y-mU>

<https://youtu.be/c_0h-ctLnq0>

<https://youtu.be/0KUPX8E3wg8>

<https://youtu.be/xu7VpFqpnRs>

Ratio Tests

<https://youtu.be/fQwC9WMUszY>

<https://youtu.be/drHt3PONy-Q>

<https://youtu.be/c1FLUKk1XWY>

<https://youtu.be/rESII_F96IY>

Root Tests

<https://youtu.be/gIYcjx4tCbo>