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Differentiation and analytic property.

1. $\exp(\lambda z)$ is analytic everywhere because

2. $\sin \lambda z$, $\cosh \lambda z \cos \lambda z$, $\sinh \lambda z$ are all analytic everywhere. This statement follows from

3. $\tan z$ is analytic everywhere except at _____

4. $\operatorname{cosec} z$ is analytic everywhere except at _____

5. $\tanh z$ is analytic everywhere except
