

lectures 7 and 8.

Some elementary functions are introduced.

They are. exponential. log. power. Sine. Cosine.

sinh. cosh. and inverse functions of sine. cosine.

sinh. cosh. More attentions should be paid.

on log. power and inverse functions of sin. cos.

sinh. and cosh. since they are defined in terms

of log and log can be a function only when

a branch $(\alpha, \alpha + 2\pi]$ is assigned. This consideration

makes some basic laws wrong / different from real case.

e.g. $\log a^b \neq b \log a$

$$(\beta_1 \beta_2)^c \neq \beta_1^c \beta_2^c$$

More details are referred to Chapter 3 of textbook.