pp6

Usingthe Pythagorian thoeren, $\sin^2 x + \cos^2 x = 1$, and knowing that sinz and cosz afe analytic functions, what can we say about $(\sin z)^2 + (\cos z)^2$

Show that cos(A+B) = cosAcosB-sinAsinB using exponential expressions for sin and cos)

What are the zeros of a) $e^x + e^{-x}$, x real ?

b) $e^z + e^{-z}$, z complex?