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eigenvalue-squared = 1  $\Rightarrow$  eigenvalue =  $\pm 1$ .  $\alpha^2 1 = 1 \Rightarrow \text{Tr}\beta = \text{Tr}\alpha^2$

$1\beta$ . Cyclic property of the trace  $\Rightarrow \text{Tr}\alpha^2 1\beta = \text{Tr}\alpha 1\beta\alpha$ . Then  $\{\alpha, \beta\}$

= 0  $\Rightarrow \text{Tr}\alpha 1\beta\alpha = -\text{Tr}\alpha 21\beta = -\text{Tr}\beta$ . Thus  $\text{Tr}\beta$  equals minus itself, and so ...

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These solutions reflect assignments made by Professor Larsen at the University of Michigan during his two-semester course on Quantum Field Theory during the academic year 2003-2004. (As an extra disclaimer to the cautious student: I took this course when I was a second-year undergraduate; but I did preform consistently at the top of the class).

Solutions to Problems in Quantum Field Theory

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