QFT

Chapter 47: Gamma Matrix Technology

Everything

- Here Srednicki derives a few useful identities for gamma matrices.

- I have very little to add to this. Some random thoughts:
  - Traces are cyclic, Tr(ABC) = TR(BCA) = Tr(CAB)
  - Gamma matrices are Hermitian (γ^0) or anti-Hermitian (γ^i)
  - Recall our slash notation: $\not{a} = a_\mu \gamma^\mu$

- With these results, we will be able to simplify the matrix elements even further than we did in chapter 46.