Homework: Particle Physics #1

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1.
$$P\psi P^{-1} = \eta\gamma^0\psi(t, -\mathbf{x})$$
$$P\bar{\psi}P^{-1} = \eta^*\bar{\psi}(t, -\mathbf{x})\gamma^0$$

2. Prove Landau-Yang theorem. We can wirte