

Homework 1

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PHY 539: Introduction to String Theory

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1 Problem 1

$$-det g_{\alpha\beta} = 1 - \partial_0 X^i \partial_0 X_i + \partial_1 X^i \partial_1 X_i + \partial_2 X^i \partial_2 X_i \quad (1) \quad \boxed{1}$$