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## Session 10

### Exercise

show that terms of the kind

$$1) \quad (\nabla_{\Sigma}^n \phi)^2 \quad n \text{ even}$$

and terms of the kind

$$2) \quad \phi^n \quad n \text{ even}$$

are irrelevant if we choose

$$\tilde{\phi}\left(\frac{\vec{k}}{b}\right) = \tilde{\phi}(\vec{k}) b^\lambda \quad \text{with} \quad \lambda = \frac{d+2}{2}$$