1   Consider the generating functional:

$$Z[J] = \text{Exp}\left\{ \int dt \; \frac{J^2(t)}{2} f(t) + \lambda \int dt \; \frac{J^3(t)}{3!} + \tilde{\lambda} \int dt \; \frac{J^4(t)}{4!} \right\}$$

where f(t) is just a function of t (independent of J)

Obtain the 3-point correlator and the 4-point correlator.