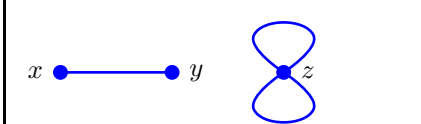
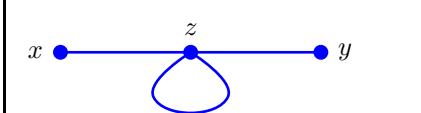
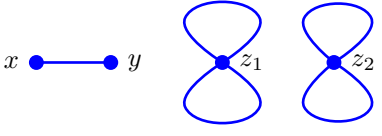
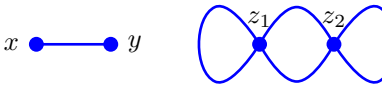
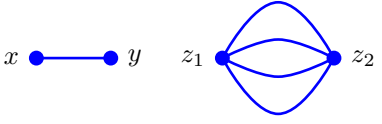
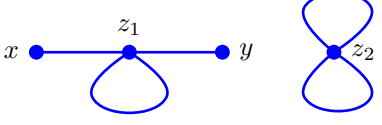
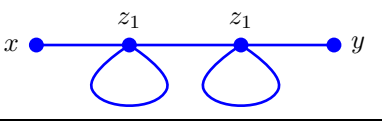
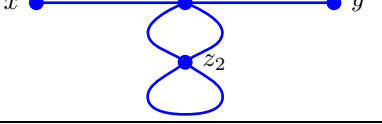
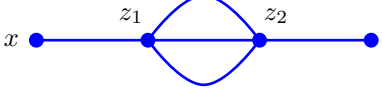


$$\langle 0 | \mathbf{T} \hat{\Phi}(x) \hat{\Phi}(y) \hat{\Phi}^4(z) | 0 \rangle, \quad \frac{6!}{2^3 \times 3!} = 15 \text{ pairings}$$

	3 terms	8 symmetries
	12 terms	2 symmetries

For each diagram, #terms \times #symmetries = 4!.

$$\langle 0 | \mathbf{T} \hat{\Phi}(x) \hat{\Phi}(y) \hat{\Phi}^4(z_1) \hat{\Phi}^4(z_2) | 0 \rangle, \quad \frac{10!}{2^5 \times 5!} = 945 \text{ pairings}$$

	9 terms	2×8^2 symmetries
	72 terms	16 symmetries
	24 terms	2×24 symmetries
	2×36 terms	16 symmetries
	2×12^2 terms	4 symmetries
	2×12^2 terms	4 symmetries
	2×96 terms	6 symmetries

For each diagram, #terms \times #symmetries = $2 \times (4!)^2$.