Ratio of variance of parameter estimates for Lotka–Volterra seasonal model

$\sigma = 0.1 \; ; \; \alpha = 2/3 \; ; \; \beta = 4/3 \; ; \; \gamma = 1 \; ; \; \delta = 1 \; ; \; \varepsilon = 0.2 \; ; \; \omega = 0.5 \; ; \; n = 144$