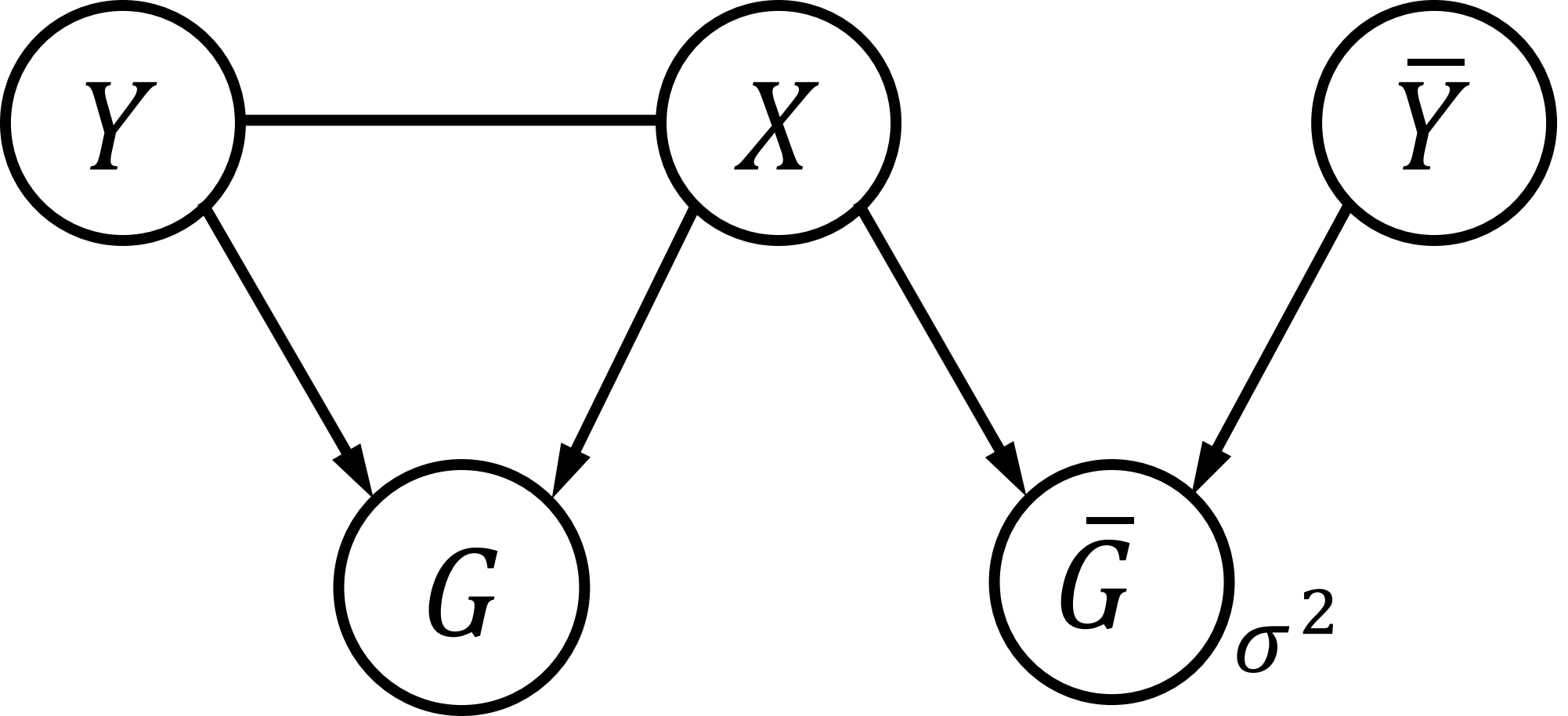
$Y$
$X$
$\bar{Y}$
$G$
$\bar{G}$
$\sigma^2$