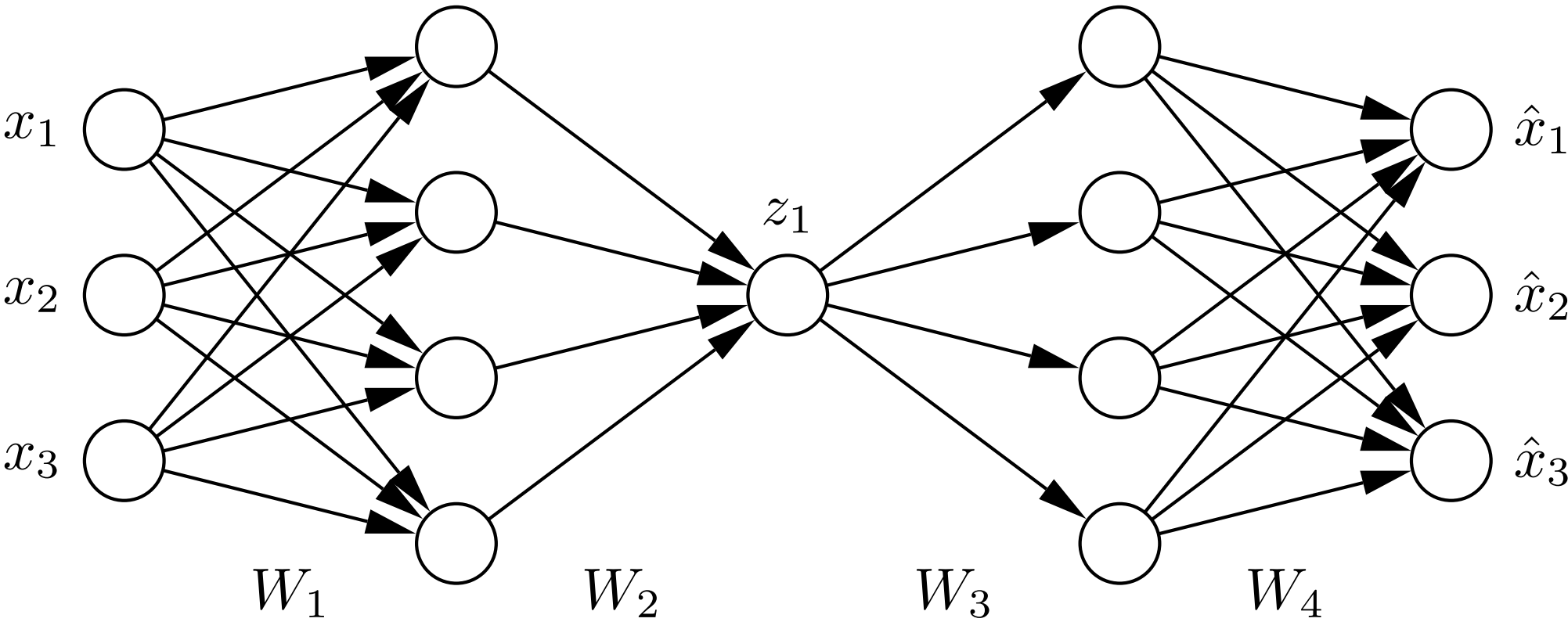
$\Phi_{extr} : \mathcal{X} \rightarrow \mathcal{Z}$ $\Phi_{gen} : \mathcal{Z} \rightarrow \hat{\mathcal{X}}$



extraction generation