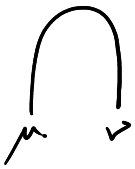
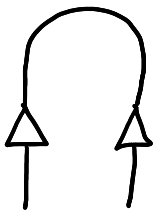
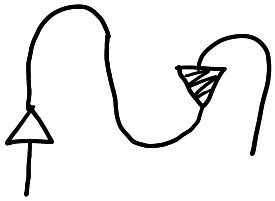
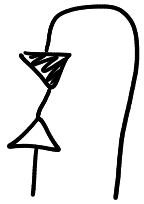
$\eta_{\mu\nu} \triangleq$ 

$\Lambda^{\alpha}{}_{\mu}\,\Lambda^{\beta}{}_{\nu}\,\eta_{\alpha\beta} \;\hat{=}$ 

$=$  $=$  $=$  $\hat{=}\ \eta_{\mu\nu}$

$\Lambda^{\mu}{}_{\nu} \triangleq$