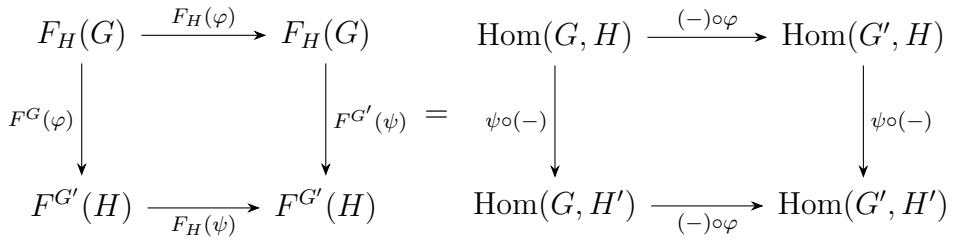
$F_H(G)$
$F_H(\varphi)$
$F_H(G)$
$F^G(\varphi)$
$F^{G'}(\psi)$
$F^{G'}(H)$
$F_H(\psi)$
$F^{G'}(H)$
=
$\mathrm{Hom}(G,H)$
$(-)\circ\varphi$
$\mathrm{Hom}(G',H)$
$\psi\circ(-)$
$\psi\circ(-)$
$\mathrm{Hom}(G,H')$
$(-)\circ\varphi$
$\mathrm{Hom}(G',H')$