

## Supplemental material for Visual Algebra (Math 4120), HW 7

**#1:** Cayley table of the quotients of the dihedral group  $D_6 = \langle r, f \rangle$  by the subgroups  $N = \langle r^3 \rangle$  and  $H = \langle r^2 \rangle$ .

	$N$	$rN$	$r^2N$	$fN$	$rfN$	$r^2fN$
$N$						
$rN$						
$r^2N$						
$fN$						
$rfN$						
$r^2fN$						
	$H$					
$H$						

**#1:** Cayley table of the quotients of the dicyclic group  $\text{Dic}_6 = \langle r, s \rangle$  by the subgroups  $N = \langle r^3 \rangle$  and  $H = \langle r^2 \rangle$ .

	$N$	$rN$	$r^2N$	$sN$	$rsN$	$r^2sN$
$N$						
$rN$						
$r^2N$						
$sN$						
$rsN$						
$r^2sN$						
	$H$					
$H$						