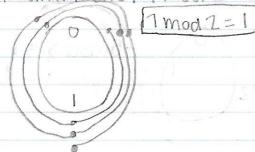
CIS405: Mod 4 Modular Arithmetic Journal

913

Visualize 7 mod 2 and -7 mod b using clock arithmetic and Barrett reduction. Show the calculation on how you arrived at the answer in both cases.

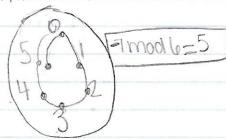
Clock arithmetic: I mod 2



Barrett Reduction: 7mod 2 =7-2.[7]2]-D7-2.[3.5] =7-6=[]

PRINCE UM, THE PROBLE OPERAL

Clock arithmetic: - 7 modlo



Barrett Reduction: -7 modlo = -7+(6. L^{7} |6)

=-7-(6. L^{7} |6)

=-7-(6. L^{-1} .16)

=-7-(6. L^{-2})

=-7-(-12)

=-7+12 =5

[-7modlo=5]