

Quiz # 9 for Dr. Z.'s Number Theory

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. (5 points) State the Möbius inversion formula, and check it empirically for all $n \in Div(30)$

2. (5 points) Using the important test (involving modular exponentiation) (no credit for brute force!) find

$$\left(\frac{8}{19}\right)$$