

Attendance Quiz # 18 for Dr. Z.'s Number Theory Course for Nov. 7, 2013

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. Which of the following are perfect numbers? Explain!

a. 49 ; b. 28

2. (Without peeking at your notes), prove that if p is a prime, and $2^p - 1$ is also a prime, then

$$2^{p-1} \cdot (2^p - 1)$$

is a perfect number.