Mathematics 546

Quiz #3   Name:_____

1. Prove that there are infinitely many prime integers. (You may use the Smallest Factor Theorem, *i.e.* that if $N > 2$ the smallest factor of N that is larger than 1 is a prime.)

2. Find the greatest common divisor of 180 and 744.

$$\gcd(180, 744) = \underline{\hspace{4cm}}$$