APRIL 20TH, 2018

1. Show that $3n + 5 \leq 2^n$ for all $n \geq 5$ using induction.

2. Let $P(n)$ be the statement that a postage of n cents can be formed using 4-cent and 5-cent stamps. Show that $P(n)$ is true for every $n \geq 12$ by using strong induction.