► If needed, look at the LaTeX for this Exercise 38 for help with the LaTex for Math Induction exercises.
► For a Strong Induction proof, in the Base Step check the least possible number of integer(s) as so to have a correct proof.

Exercise. A variant of Exercise 4.2.101. §4.2

Using Math Induction, prove that every natural number greater than 3 may be written as an integer linear combination of the numbers 2 and 5; that is, if $m \in \mathbb{N}^{\geq 4}$ then there exists $x, y \in \mathbb{Z}$ such that $m = 2x + 5y$.