

1 Assignment

Prove that $\{6k + 1 : k \in \mathbb{Z}\} \subseteq \{3k + 1 : k \in \mathbb{Z}\}$.

Hint: We're getting kind of formal here, with lots of notation. Revisit the definition of 'subset' (the topic of the last class and today's reading) and determine what you need to do to prove that $A \subseteq B$ for sets A and B . Then try to apply that to this example.