

Number Theory Quiz II

RDB

June 14, 2022

Problem 1 Find, if possible, integers x and y such that

$$6x + 21y = 15$$

Problem 2 What is the *smallest positive* integer x such that there exists an integer y such that $6x + 21y = 15$? Explain why. [Hint: You just found a particular solution on the previous problem!]