CH 10

mrevanishere

October 31, 2020

1 Division

Definition:
Let $a, b \in \mathbb{Z}$. We say a divides b (or a is a factor of b) if $b = ac$ for some integer c.
When a divides b, we write $a|b$
Proposition 10.1
Let a be a positive int. Then for any $b \in \mathbb{Z}$ there are integers q, r such that

$$b = qa + rand 0 \leq r < a$$

q is quotient
r is remainder