The Euler ϕ-function

Recall from Section **??**, **??**

Definition (Euler ϕ-function)**.** Let n be a positive integer. The *Euler ϕ-function $\phi(n)$* is

$$\phi(n) = \#\{a \in \mathbb{Z} : a > 0 \text{ and } (a, m) = 1\}.$$

This section will explore the $\phi-$function in more depth.