

 Info

This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on October 24, 2024 8:43:49 PM, was last modified on May 17, 2026 7:36:38 PM, and was exported on September 7, 2026 3:04:03 PM.

$$\mathbb{Z}[\sqrt{3}]$$

$$m + n\sqrt{3} \mapsto |m^2 - 3n^2|$$

is a norm on $\mathbb{Z}[\sqrt{3}]$ and division algorithm exists for this norm.

$$\mathbb{Z}[\sqrt{3}]$$

is integrally closed.

Current note has 0 direct children and 0 total descendants.

- [stretchy](#)
 - $\mathbb{Z}[\sqrt{m}]$
 - $\mathbb{Z}[\sqrt{3}]$

And it has 1 siblings.

- [stretchy](#)
 - $\mathbb{Z}[\sqrt{m}]$
 - $\mathbb{Z}[\sqrt{3}]$