Title:	Integral basis of pure prime degree number fields
Authors:	Jakhar, A. (/jspui/browse?type=author&value=Jakhar%2C+A.) Sangwan, N. (/jspui/browse?type=author&value=Sangwan%2C+N.)
Keywords:	Algebraic number theory Though Integral
Issue Date:	2019
Publisher:	Springer Link
Citation:	Indian Journal of Pure and Applied Mathematics, 50(2),pp. 309-314.
Abstract:	Let K = ℚ(θ) be an extension of the field ℚ of rational numbers where θ satisfies an irreducible polynomial xp − a of prime degree belonging to ℤ[x]. In this paper, we give explicilty an integral basis for K using only elementary algebraic number theory. Though an integral basis for such fields is already known (see [Trans. Amer. Math. Soc., 11 (1910), 388–392)], our description of integral basis is different and slightly simpler. We also give a short proof of the formula for discriminant of such fields.
URI:	https://link.springer.com/article/10.1007/s13226-019-0326-7 (https://link.springer.com/article/10.1007/s13226-019-0326-7) http://hdl.handle.net/123456789/2018 (http://hdl.handle.net/123456789/2018)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format	
Need to add pdf.odt (/jspui/bitstream/123456789/2018/1/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text	View/Open (/jspui/bitstream/12345

Show full item record (/jspui/handle/123456789/2018?mode=full)
(/jspui/handle/123456789/2018/statistics)