

Krull's principal ideal theorem

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Author drini (3) Entry type Theorem Classification msc 13C15 Let R be a Noetherian ring, and P be a prime ideal minimal over a principal ideal (x). Then the http://planetmath.org/HeightOfAPrimeIdealheight of P, that is, the http://planetmath.org/KrullDimensiondimension of R_P , is less than 1. More generally, if P is a minimal prime of an ideal generated by n elements, the height of P is less than n.