

1014-13-629

**Daniel D. Anderson\*** ([dan-anderson@uiowa.edu](mailto:dan-anderson@uiowa.edu)), Department of Mathematics, University of Iowa, 14 MacLean Hall, Iowa City, IA 52242, and **Muhammed Zafrullah** ([mzafrullah@usa.net](mailto:mzafrullah@usa.net)), 57 Colgate St., Pocatello, IA 83201. *Pseudo Almost Integral Elements.*

Let  $D$  be an integral domain with quotient field  $K$ . We define an element  $\alpha \in K$  to be *pseudo almost integral over  $D$*  if there is an infinite increasing sequence  $\{s_i\}$  of natural numbers and a nonzero  $c \in D$  with  $c\alpha^{s_i} \in D$ . We investigate when a pseudo almost integral element is almost integral or integral. We also determine the sequences  $\{s_i\}$  with the property that for any domain  $D$  and  $\alpha \in K$ , whenever  $c\alpha^{s_i} \in D$  for some nonzero  $c \in D$ , then  $\alpha$  is actually almost integral over  $D$ . (Received September 21, 2005)