

1067-11-358

**Alejandra Alvarado\*** (alvarado@math.arizona.edu), 617 N. Santa Rita Ave., Tucson, AZ  
85721. *Arithmetic Progressions in the y-coordinates of Certain Elliptic Curves.*

We consider arithmetic progressions in the y-coordinate on the elliptic curve  $y^2 = x^3 + k$  whose coefficients are rational. We investigate lengths four, five, and six. (Received August 26, 2010)