A polynomial has the form \( p(x) = x^{2012} - 2000x^{2011} + \ldots + 13 \). If all of its roots are integers find them, listed with their multiplicities.

Solutions should be submitted to Morgan Sherman:

Dept. of Mathematics, Cal Poly  
Email: sherman1 -AT- calpoly.edu  
Office: bldg 25 room 310

before next Thursday. Those with correct and complete solutions will have their names listed on the puzzle’s web site (see below) as well as in next week’s email announcement. Anybody is welcome to make a submission.

http://www.calpoly.edu/~sherman1/puzzleoftheweek