

Assignment $\# \pi$ Solutions

September 1, 2008

P. S. Cal and R. Kim Eadies

1 Solutions

Solution 1. No, 6 is not a prime number, since, for example, it is divisible by 2.

Solution 2. Just one. He holds the lightbulb up and the world revolves around him.

Solution 3. Since Lemma 37 guarantees that tensor products over the Gaussian integers form a continuous semilattice, by Theorem 2.4.9.6.ix.22 we may conclude that $\int_{\lambda}^{x^2} \mathcal{P}(x_{\xi}) \geq \|\vec{v}^{\perp}\|$. From this, it is plain to see that $1 + 1 = 2$.

2 Comments

Overall, we enjoyed this assignment, especially the part with the lightbulb jokes. However, we found the material on continuous semilattices confusing, and Problem 3 was much too difficult. It seemed almost like you just made it up. Three questions also seemed like a bit much—this assignment took us a whole fifteen minutes to complete! It would be nice if future assignments were a bit shorter, like, say, zero or maybe negative one problems.

We would be interested to learn more about the number 6. What more can you teach us about this fascinating number?