
Problem of the Week

Number Eight

I recommend a Math 237 approach to this week's problem, though other options are available. Be sure to justify your answer!

Let α, β and γ denote the three angles of a triangle. Find the maximum possible value of $\sin \alpha + \sin \beta + \sin \gamma$.

FOLLOW THESE INSTRUCTIONS TO THE LETTER:

Please place your name and e-mail address at the top of this page. If you are receiving class credit for participating, please indicate the course number and your professor. Your answer to the problem, coupled with a clear explanation of how you arrived at it, should appear on the back of this page. Be sure to write neatly! If I can't easily read your paper, then I will discard it.

Due Tuesday, April 21 by 5:00 to Jason Rosenhouse in Roop 121. One weekly winner will receive a five dollar gift card to Greenberry's, and will be chosen randomly from among the correct answers.