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**Troy D Riggs\*** (triggs@uu.edu), 1050 Union University Drive, Jackson, TN 38305. *Sense and Sensibility.*

The entire mathematical community should understand mathematics beyond a mere collection of facts and procedures. The development, practice, teaching and learning of mathematics are creative enterprises. The art of creating and applying mathematical structures is guided by aesthetic values, including a priority on internal coherence (sense) and relationships which harmonize with our experience (sensibility). Specific examples where this insight can impact the mathematics education of both mathematics teachers and their students are discussed. (Received July 08, 2005)