

MATH 302

QUIZ 3
NOVEMBER 13, 2007

NAME _____

This is to be turned in on Thursday, November '15.

I want a clean, polished solution to the following. Attach to the back, your scratch work. The maximum score on the quiz is 6 points.

1. 1 point The odd number 7 can be expressed as $16 - 9 = 4^2 - 3^2$, a difference of two squares. Express each of 17 and 83 as the difference of two squares.

2. 2 points Demonstrate that every odd number $2n + 1$ may be expressed as the difference of two squares"

3. 3 points Demonstrate which even numbers can be expressed as a difference of two squares.