

MATH 187 – Section 002 – Quiz 10

You may work with other class members on this quiz, but you may *not* receive assistance from people not in MATH 187, Section 002. You must show all of your work to receive full credit. Do all your work on other sheets of paper and be sure to staple all the pieces of paper together or **YOU WILL GET A 'ZERO' ON THE QUIZ**. Your work on this quiz must be handed in by the beginning of class on Friday, 20 November 2009. **GOOD LUCK!**

1) Explain why

$$15 \otimes 46 \tag{1}$$

makes sense in \mathbb{Z}_{103} . Then compute (1) in \mathbb{Z}_{103} .

2) Do Exercise 37.4 on page 325 of our text. Be sure to show that your examples have the desired properties.

2) Do Exercise 36.10 on page 319 of our text.