Name(Print):.....

Circle Section Number, 21, 22, 23, 24, 25

ID(Number):.....

Signature:.....

Math 1151, Lecture 20 Diagnostic Test September 7, Friday, 2007.
Professor Peter A. Rejto.

1. (40 pts.) If Mary ate $\frac{3}{8} - th$ of a pizza and Mathew ate $\frac{2}{5} - th$ of a pizza, then how much of the pizza is left? Please give the exact answer as a fraction and note that most calculators give a decimal number which is only close to the exact fraction.

2. (40 pts.) Factor,

$$x^2 - 9.$$

PLEASE TURN TO THE NEXT PAGE !

3. (40 pts), Multiply.

$$(x^5y^{-3})(x^{-2}y^2).$$

4. (40 pts), Simplify.

$$\frac{1}{\frac{1}{a}+\frac{1}{b}}.$$

In other words, write this composite fraction as a simple fraction.