

MthU201
Quiz #3
40 Minutes

History of Mathematics
Professor Gilmore
Mar. 20, 2008

Name: _____.

Show All Your Work

1. Write a paragraph on each of the following topics. Each paragraph must contain at least four distinct facts about the topic indicated: **Continue your paragraphs on the back of this sheet if necessary.**

a. The ancient Indus River Valley civilization.

b. The ancient Vedic literature.

c. The mathematician Brahmagupta.

(OVER)

2. Use the ancient Chinese algorithm of producing 1's under the leading coefficients in each equation (Gauss-Jordan elimination) to solve the following system of four equations in four unknowns:

$$x \quad + \quad z \quad - \quad w \quad = \quad 6$$

$$y \quad - \quad z \quad + \quad w \quad = \quad -3$$

$$x \quad + \quad y \quad + \quad z \quad + \quad w \quad = \quad 5$$

$$y \quad + \quad z \quad + \quad w \quad = \quad 3$$