Name _____

MATH 221: BASIC CONCEPTS OF ELEMENTARY MATHEMATICS I

Quiz #6

Points: Each problem is worth 4 points.

1. How many of the following illustrate the Associative Property of Addition?

$$\text{(i)} \quad (1 + 2) + 3 = 1 + (2 + 3)$$
$$\text{(ii)} \quad (1 + 2) + 3 = 3 + (1 + 2)$$
$$\text{(iii)} \quad (1 + 2) + 3 = (2 + 1) + 3$$
$$\text{(iv)} \quad 1 + (2 + 3) = 1 + (3 + 2)$$

(a) 1   (b) 2   (c) 3   (d) 4

2. Which of the following is the same as $(x + y)(x + y + z)$?

(a) $x^2 + xy + 2xz + y^2 + yz$ (b) $x^2 + 2xy + xz + y^2 + yz$

(c) $x^2 + xy + xz + y^2 + yz$ (d) $x^2 + xy + 2xz + yz + z^2$