NAME: _____

NUMBER: _____

QUIZ over Section 8 in the 'CAT' book; 30 points.

| 1. (4 pts) | What is a 'theorem'? |

| 2. (4 pts) | Decide whether each 'for all' sentence is TRUE or FALSE. (2 pts each) |

T   F   For all real numbers x and y, $x - y = y - x$.

T   F   For all real numbers x and y, $xy = yx$.

| 3. (4 pts) | What would you DO to each equation, to transform it to an equation of the form |

$$\text{'some variable} = \text{some number ' ?}$$

(2 pts) $x - 3 = 7$ _____

(2 pts) $6 = t + 2$ _____

| 4. (12 pts) | SOLVE the equation $2x - 5 = 1$, using TWO of the five acceptable formats for solving equations. CIRCLE the format that you prefer. (4 pts each) |

FIRST SOLUTION   SECOND SOLUTION

(4 pts) CHECK your solution, using the preferred format discussed in the text.

5.　　　　　(3 pts)　Give a PRECISE statement of the 'Addition Property of Equality'.
(6 pts)

(3 pts)　What does the Addition Property of Equality tell you that you can DO? (That is, translate the theorem.)