Quiz 4

This is a two-stage quiz. During the first stage, use your knowledge & calculator to take this quiz. You have 15 min. In the second stage, you are now welcome to use your books, notes, and students in the class to retake the same quiz. You have 15 min. to write one solution (with everyone's name on it!!!) to be turned in for the group.

Nymp3.2 mgg Show all your work. Reasonable supporting work must be shown for any partial credit.

1. [2] The work below is wrong. Find the error(s) & try to detect the reason for the error.

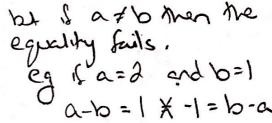
84 - 36 = (80 + 4) - (30 + 6) = (50 + 30 + 4) - (30 + 6) = 50 + 4 + 6 = 50 + 10 = 60The student lost the 46 in the number -36.

The runs was chopped and instead the 6 was added.

il. four to distribk the reschie sign

2. [2] Let a and b be whole numbers. Is the following statement always true, sometimes

true, or never true? Briefly justify your answer. eg is a=b then a-b=b-a egisting fails. a-b=0eg is a=2Estanolinosine.



3. Consider the number represented with one flat, 2 longs, and 4 units shown below.

(a) [2] Write the number of units in positional notation for the given base-

PAN | NJR: # of UNIS 1.5 | 1.72+ 2.7+ 4 = 49+14+4=67 (b) [4] Add the above number to 1322 Provide steps as you would for a 2nd grader. 13 pur is in base \$, so our longs are \$ whs

13 per = 1.10ng + 3 miss or \$7+3 or 10 units. We shouther + 13 seven = 1 Plant + 3 longs + 7 m/s } We regraphe | That to one | The long of the long of we have long of we have longs or 140 seven note: #51 miles 4 seven 200 67+10=77