Fatih Yildiz (when shifting A, the rightmost 2-trits one lost) Rightshift by 1: A+B= $\frac{exp}{00011}$ $\frac{mantessa}{1.1.1.0000000}$ when shifting, the rightmost trit is lost.

03.1) We can divide the addition algorithm into 4 steps: 1 - Load the inputs and check for special inputs (-00,+00, NaN,0) 2- Align the mantissus (right shift the mantissu of the operand with smaller exponent until exponents match.) 3-Add or substract the manhssas. 4-Check if the result is normalited. It not, normalize. To illustrate these steps, here is an example:

Step 2: Since exponents one not the some, shift A's manusa to right by

3-1 = 2 trits. We get: exp mantiesa

A= 00010 0010110000000

B = 00010 1110000000000000

Step 3; Add the manhssas:

C00000110100 EA

B=) + 111000000000

overflow - 1-1-1-10110000000

Step 4: We have to normalize the result before storing it. (Note-that this step is not necessary of the acquired result is already normalized.)

 $= A+B = 3^{4} \times \left(\frac{1}{3} - \frac{1}{3^{2}} - \frac{1}{3^{3}} - \frac{1}{3^{4}} + \frac{1}{3^{6}} + \frac{1}{3^{7}} \right)$

In fact, a = 1,1481481481481481

b = 13

which can be expressed as this. a+ b = 14,1481481481481481