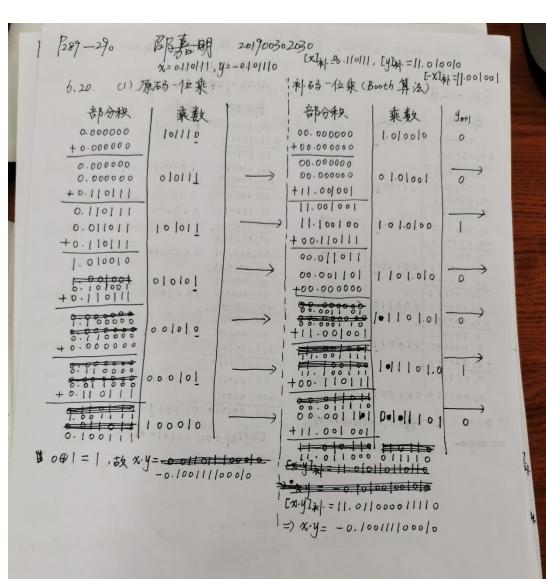
郡嘉明 P289 - 290. 6.19 a) A=+= + 0.00/00/0 B= -13= -0.0110 00 CA] = 0.00/0010, [B] = 1./001/00 [-B] - 0.01/0/00 =) [A+B]+= [A]++[B]+= +1.1001100 1.1011110 = 1.1011110 => A+B= 1.0100010 = -64 ,未溢出 (2)  $A = +\frac{19}{32} = +0.001100$ ,  $B = -\frac{17}{128} = -0.00100$ CAlif = 0.1001100, [Blip = 1.1101111 => [-B] = 0.00|000| -) AB OUT 18 = 19 \_ = 0.1011101 +0.0010001 ⇒ A-B = 0.1011/01=+ 93 ,未溢出 (3)  $A = -\frac{3}{16} = -0.001/000, B = \frac{9}{32} = 0.0/00/00$ [A] \* = 1.1101000, [B] \* = 0.0100100 =) [A+B]\*| = [A]\*|+[B]\*|= +0.0100100 2 0.0001100 =) A+B=0.0001100=量,未溢出 +32

201900302030 (4) A = -87 = -1010111 B = 53 = + 0110101 [A] \* = 1,0101001 [B]= 0,0110101 [-B]== 1,1001011 =) [A-B]科=[A]科+[-B]科 = |, 0|0|00| + |, |00|01| 0, |||0|00 =0,1110100 =) A-B = 0,1110100 = +11b, 溢出,结果有设 (5) A=115=+1110011 B = -24 = -0011000 [A]\*+= 0,1110011 [B] = 1,1101000 0,11/0011 [A+B] \* = [A] \* | + [B] \* = +1,1101000 = 0,101/01/= +9/, 未溢出



(3) 
$$x=19$$
,  $y=35=(100011)_2$   
=  $(010011)_2$ 

## 原码-位乘:

部分积	乘数	
0,000000	100011	000000.
0,010011	110001	
0,011100	011000	1110110
0,001110	001100	
0,000111	100110	01 1300.0
0,00001	11001]	
0,001010	011001	

[X]补=00,010011,[y]补=00,100011 [-X]补=11,101101 补码-位来 (Booth算法)

7/4/		
部分积	乘数 ynti	
00,000000	10,100011 0	
+11,101101	317101 300	
11, 101101	-	10.00
11,110110	10,10001	
+00,000000	111010 0000	
11, 110110		11.0
11,111011	0 10,1000	011.0
+00,010011	110/01/ 110	
00,001110		2
00,000111	0010,100 0	1 1 1 1
+00,000000		
00,000111	101010 +	7
00,000011	10010,10 0	
+00,000000	400	
00,000011	010 -101	->
00,000001	[10010,10	
+11,101101	1 2 3 3	
11,101110	* Total	_>
11,110111	0110010, 1	170
+00,010011		
00,001010	01100	
_ 5	1 - 01100	

=> x y = + 665

289~290 201900302030 部基明 6.21 (1) x=0.100111, y=0.101011 原码加减支撑法 [X] = 0.100/11, [y] ] = 0.10/01, X\*=0.100/11, y\*=0.101/1 [小本|-=1.010101 被除数(余数) 0.100111 0.000000 +1.010101 + [-4\*]\* 1.111100 1.111000 +0.101011 0.100011 1.000110 +1.010101 0.011011 011 0.110110 011 +1.010101 0.010110 +1.010101 + [-y\*]\* 1.101011 01110 1.010110 01110 +[4\*]\* +0.101011 011101 0.000010 011101 + T-y\*]\*/ 11.010101 0111010 1.010111 + [y\*]z+ +0.10/011 0.000010 籍位.0⊕0=0 ·则 xiy= 0.111010 (3) x = 0./0/00, y = -0./000/, [x] [=0.10100, [y] [=1.1000], x\*= 0.10100, y\*= 0.1000], [-y\*] [=1.0111] 被除数(余数) 周 0.10/00 0.000000

0.50011

P289 ~ 290 201900302030 部嘉明 6,26 (1) x = 2-01 x 0.101(00, y=2-010x (-0.011100) [X]]= |1,101;00.101100, [4]]=|1,110; |1.100100 (jx) = 11,101 too,010 ·从在华尾数在移1位, 了次十1 [x]xf=11,110;00.010110 [x+y]= [x]x + [y]x = 41.100100 = =11.111010. [x-y]2 = [x]2 + [-4]2 = 00.010100 00.110010 对[x44]剂 左规3次,断码减3,得[x+y]剂=11,011;11.010000 本品学 [x-y]补已是规格代数 =) x+y= 2-101 x (-0.110000), x-y= 2-010 x 0.110010 6.27. (1) x= at 101; to:101100, y= 100; At -0.100100 [x]= 00, 101; 00.101100, [y]== 00, 100; 11. 011100 y尾数右移1位, jy+1 Iy ] = 00, 101; 11.101110 00.101100 左规(次,所码流), [x+y]x = [x]x + [y]x = +11.101110 = 00,100; 00.110100 =) X+y= 2100 x 0.110/00

```
6.27 (3) N= +011; +0.110100, y= +100; -0.100100
                                                   [外] = 0, 100
 [x] [= 0,011; 0.110100; [y] [= 0,100; 1.100100
                                                   0,100
                 乘数,
                                    100=1
  部分秋
                                      MX x y = 2 X 0.0 | 1 | 0 | 0 | 0000
                 100100
    0.000000
                 010010
   0.000000
                 001001
   0.000000
  +0.110100
   0.110100
                000100
   0.011010
                000010
   0.001101
   0.000110
                100001
  +0.110100
  0.111010
               010000
  0.011101
 (4) x= -0.101100, y= -0.111100, x= =0.101100, y*=0.111100
                                [XM]=0,110
    [-y*]x/ = 1.000100
                                四月十二0,011
                                                 *** | # | = 0
                                    +1,101
                           角.
   被除数(余数)
                                                 P) xty= 2011× かわけ
                         0.000000
                                                             0.101110
     0.101100
                                      + [-y*]*/.
    +1.000/00
     1.110000
                                                          [.][] 00 +[y*]
     1.100000
                                                         + 0 | | | | 00

- 0 | | | | 00
   +0.111100
                                      + Ly+]* 1-
                              01
    0.011100
                                                          1.111100
                                                                   + [y*] 4
    0.111000
                             01
                                                         +0.111100
                                     + [-y*]*
  +1.000100
                                                          0.111000
    1.111100
                            010
   1.111000
                           010
                                     + 以*科
 +0.111100
                          0101
  0.110100
  1.10/000
                         0101
+1.000100
                         01011
  0.101100
                       01011
  1.011000
+1.000 | 00
                       010111
 0.011100
                      010111
 0.111000
+1.000100
                      0101110
 1.111100
```