10.11) $2^3 \times \frac{13}{16} = 2^3 \times (0.8125) = 2^{010} \times 1.101000$

$2^4 \times (-\frac{9}{16}) = 2^4 \times (-0.5625) = 2^{011} \times (-1.001000)$

$(X \times y)_{浮} = (1.101 \times 2^{010}) \times (-1.001 \times 2^{011})$

将x和y的指数部分相加 $e^x + e^y = 010 + 011 = 101 = 5$

用移码表示，则为 $[E_x + E_y] = 5 + 127 = 132$

尾数相乘如下：

```
    1.101
  x 1.001
-----------
    1 101
  0 0 0 0
0 0 0 0
1 1 0 1
-----------
1 1 1 0 1 0 1
```

得到的乘积为 1.110101×2^5，又因为符号位不相同

故结果为 $-2^{101} \times 1.110101$

(2) $2^{-2} \times \frac{13}{32} = 2^{-010} \times 0.40625 = 2^{-010} \times 0.01101 = 2^{-100} \times 1.101$

$2^3 \times \frac{15}{16} = 2^{011} \times 0.9375 = 2^{011} \times 0.1111 = 2^{010} \times 1.111$

将x和y的指数部分相减 $100 - 010 = -110$

尾数相除得

```
          0.110011
        ------------
0.1111 | 1.1010
       - 0.1111
       -----------
         0.10010
       - 0.01111
       -----------
         0.00011
         0.001111
       -----------
         0.000110 00
         0.000111 1
       -----------
         0.000110 00
       - 0.000011 11
       -----------
         0.000010010
```

故结果为商为

$2^{-110} \times 0.110011$

余数为 0.000001