

⑥ $(-5)_{10} \cdot (-6)_{16}$

$$14Q0 \begin{matrix} - & 6 & 0 & 3 & 0 & 1 \\ \cdot & 6 & 1 & 0 & 1 & 0 \end{matrix} \begin{matrix} - & 6 & 0 & 1 & 1 & 0 \\ \cdot & 6 & 1 & 0 & 1 & 0 \end{matrix}$$

$$\begin{array}{r} \quad \quad \quad \neg(60101) \cdot \neg(60110) \\ \text{I4Q0 } 61010 \cdot 1001 \end{array}$$

$$\begin{array}{r} 14Q4 \ 1010 \ 0000 \\ \underline{1001 \ 0000} \\ 0000 \end{array}$$

$$\begin{array}{r} 10101101 \\ 10101101 \\ \hline 01101101 \\ 01101101 \\ \hline 00000000 \end{array}$$

$$= \begin{array}{r} 1010 \text{ I4Q0} \\ \cdot 1001 \text{ I4Q0} \end{array}$$

1	1	1	1	0	1	0
1	0	1	0	0	0	0
1	0	1	0	0	1	0

[illegible]

$$1001110111010 = -69$$

$$I8Q0$$

$$30 = 00011101$$

$$\begin{array}{r} .5 \\ .25 \\ .125 \\ .0625 \end{array}$$

0	0	0	0
0	0	0	1
0	0	0	0
0	0	1	1
0	1	0	0
0	1	0	1
0	1	1	0
0	1	1	1

1	1	1	1
1	1	1	0
1	1	0	1
1	1	0	0
1	0	1	1
1	0	1	0
1	0	0	1
1	0	0	0

$11001010 = -101$ which is not correct but I can't figure out what I'm doing wrong
 $00110101 = 1 + 4 + 32 + 64 = 101$

[illegible]

9. 5 01 00 1.1 6
2. 625 010.101 6 unsigned

$$\begin{array}{r}
 010011 \\
 600600 \\
 016611 \\
 006600 \\
 010611 \\
 \hline
 000000 \\
 0010000111 \\
 \hline
 29.9375_{10}
 \end{array}$$

⑧ $(-1.25)_{10} \cdot (3.5)_{10}$
~~110.010~~ 6011.100
 110.010
 110.110
 110.101

$$\begin{array}{r} 011.100 \text{ I3Q3} \\ 110.110 \text{ I3Q3} \\ \hline \end{array}$$

0	0	0	0	0	0
0	1	1	0	0	

$$\begin{array}{ccccc} 0 & 1 & 1 & 1 & 00 \\ 0 & 0 & 0 & 0 & 0 \end{array}$$

$$\begin{array}{r} 1104 \\ 100 \\ \hline 1204 \end{array}$$

00

01101000

$$1 - (.5 + .125)$$

110111101101000, I6 Q6 = -4.395