

$$\begin{array}{r}
 \text{D989} \checkmark \\
 9) \text{7A5D1} \\
 \underline{75} \downarrow \\
 55 \\
 \underline{51} \downarrow \\
 40 \\
 \underline{48} \downarrow \\
 51 \\
 \underline{51} \\
 0 \checkmark
 \end{array}$$

$$\begin{aligned}
 1) 7A &\rightarrow B_{10} \\
 7 \times 16 &= 112 + 10 = 122_{10} \\
 122/9 &= 13.555 \quad 13 = 0 \\
 D(13) \times 9 &= 117/16 = 7R5
 \end{aligned}$$

$$\begin{aligned}
 7A_{16} - 75_{16} &= 5 \\
 2) 55 &\rightarrow B_{10} \\
 5 \times 16 &= 80 + 5 = 85 \\
 85/9 &= 9.444 \\
 9 \times 9 &= 81/16 = 5R1 \\
 55_{16} - 51_{16} &= 4_{16} \\
 3) 40 &\rightarrow B_{10} \\
 4 \times 16 &= 64 + 13 = 77_{10} \\
 77/9 &= 8.555 \\
 8 \times 9 &= 72_{10}/16 = 4R8 \\
 4D_{16} - 48_{16} &= 5_{16}
 \end{aligned}$$

$$\begin{aligned}
 4) 51_{16} &\rightarrow B_{10} \\
 5 \times 16 &= 80 + 1 = 81_{10} \\
 81/9 &= 9_{10} \rightarrow 9_{16} \\
 9 \times 9 &= 81_{10} \quad 81/16 = 5_{16}
 \end{aligned}$$