10) $732_{10} = ?_{\varphi}$

$732_{10} = 100200_{\varphi}$

1) $732 \text{ div } 2 = 366 \longrightarrow d_1 = 732 \bmod 2 = 0$

2) $366 \text{ div } 3 = 122 \longrightarrow d_2 = 366 \bmod 3 = 0$

3) $122 \text{ div } 4 = 30 \longrightarrow d_3 = 122 \bmod 4 = 2$

4) $30 \text{ div } 5 = 6 \longrightarrow d_4 = 30 \bmod 5 = 0$

5) $6 \text{ div } 6 = 1 \longrightarrow d_5 = 6 \bmod 6 = 0$

6) $1 \text{ div } 7 = 0 \longrightarrow d_6 = 1 \bmod 7 = 1$

$X_{\varphi} = \overline{d_4 d_3 d_2 d_1}_{\varphi}$

$X_{\varphi} = 100200_{\varphi}$

11) $136_{-10} = ?_{10}$

$136_{-10} = 1 \cdot (-10)^2 + 3 \cdot (-10)^1 + 6 \cdot (-10)^0 = 100 - 30 + 6 = 76_{10}$

$136_{-10} = 76_{10}$

12) $10100010_{Фиб} = ?_{10}$

$$\underset{7\ 6\ 5\ 4\ 3\ 2\ 1\ 0}{10100010}_{Фиб} = 0\cdot 1 + 1\cdot 2 + 0\cdot 3 + 0\cdot 5 + 0\cdot 8 + 1\cdot 13 + 0\cdot 21 + 1\cdot 34 =$$

$$= 2 + 13 + 34 = 49$$

$$\boxed{10100010_{Фиб} = 49_{10}}$$

13) $1000001.000001_{Berg} = ?_{10}$

$$\underset{6\ 5\ 4\ 3\ 2\ 1\ 0\ \ -1\ -2\ -3\ -4\ -5\ -6}{1000001.000001}_{Berg} = 1\cdot\left(\frac{1+\sqrt{5}}{2}\right)^{6} + 1\cdot\left(\frac{1+\sqrt{5}}{2}\right)^{0} + 1\cdot\left(\frac{1+\sqrt{5}}{2}\right)^{-6} =$$

$$= 1_{10}$$

$$\boxed{1000001.000001_{Berg} = 1_{10}}$$