Name _____

Base 7 Arithmetic

In Base 7 there are exactly 7 digits: 0, 1, 2, 4, 5, 6. If we add one more to 6 we get 10_{seven}. Continuing on, we would have 11_{seven}, 12_{seven}, 13_{seven}, ..., 16_{seven} and 20_{seven}.

Compute the following:

1.
$$\begin{array}{r} 34_{seven} \\ + \quad 44_{seven} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 613_{seven} \\ + \quad 144_{seven} \\ \hline \end{array}$$

3.
$$\begin{array}{r} 613_{seven} \\ - \quad 144_{seven} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 14_{seven} \\ \times \quad 23_{seven} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 642_{seven} \\ \times \quad 5_{seven} \\ \hline \end{array}$$