PHILADELPHIA UNIVERSITY

DEPARTMENT OF BASIC SCIENCES

Exam 2   **Computational Number Theory**   **19–05–2008**

1. Evaluate the continued fraction $[3, 6, \overline{1, 4}]$. Write your answer in the form $\frac{P+\sqrt{n}}{Q}$.

2. Represent $\sqrt{7}$ using a periodic infinite continued fraction.

3. Use Pollard rho method to factor the number 6697.

4. The following table is taken from a Qudratic Sieve method with $n = 799$.

	29^2	31^2	40^2	58^2	75^2
2					
3					
5					
7					

Complete the algorithm.

–Amin Witno