## Math 366 - Quiz 2

Name and Student ID:
Question ( $4+3$ pts.): a) Using inspection, or using the information $\sqrt{14}=$ $[3 ; \overline{1,2,1,6}]$ find the fundamental solution (the solution with minimum $x$ and minimum $y$ in positive integers) of the Pell's equation $x^{2}-14 y^{2}=1$.
b) Find two other solutions $(x, y)$ in positive integers of the same equation $x^{2}-14 y^{2}=1$.

