Attendance Quiz # 24 for Dr. Z.'s Number Theory Course for Dec. 5, 2013

NAME: (print!) _____

E-MAIL ADDRESS: (print!)

1. Convert the $\frac{27}{23}$ into a simple continued fraction.

2. Find a representation in the form $a + b\sqrt{Q}$ for rational numbers a and b and positive integer Q, for the following infinite, ultimately periodic, continued fractions x.

$$x = [3, 1, 2, 1, 2, 1, 2, 1, 2, \dots]$$
,

where 1, 2 repeat for ever.