

Math 1303 - Math in the Liberal Arts

Quiz #15 - 2014.10.29

Solutions

1. Write the terminating decimal 2.341 as the quotient of two integers.

We first write this as a fraction over a power of 10:

$$2.341 = \frac{2341}{1000}$$

2. Write the repeating decimal $12.\overline{131}$ as the quotient of two integers.

If we let $n = 12.\overline{131}$, then $1000n = 12131.\overline{131}$. So

$$999n = 12119 \longrightarrow n = \frac{12119}{999}$$