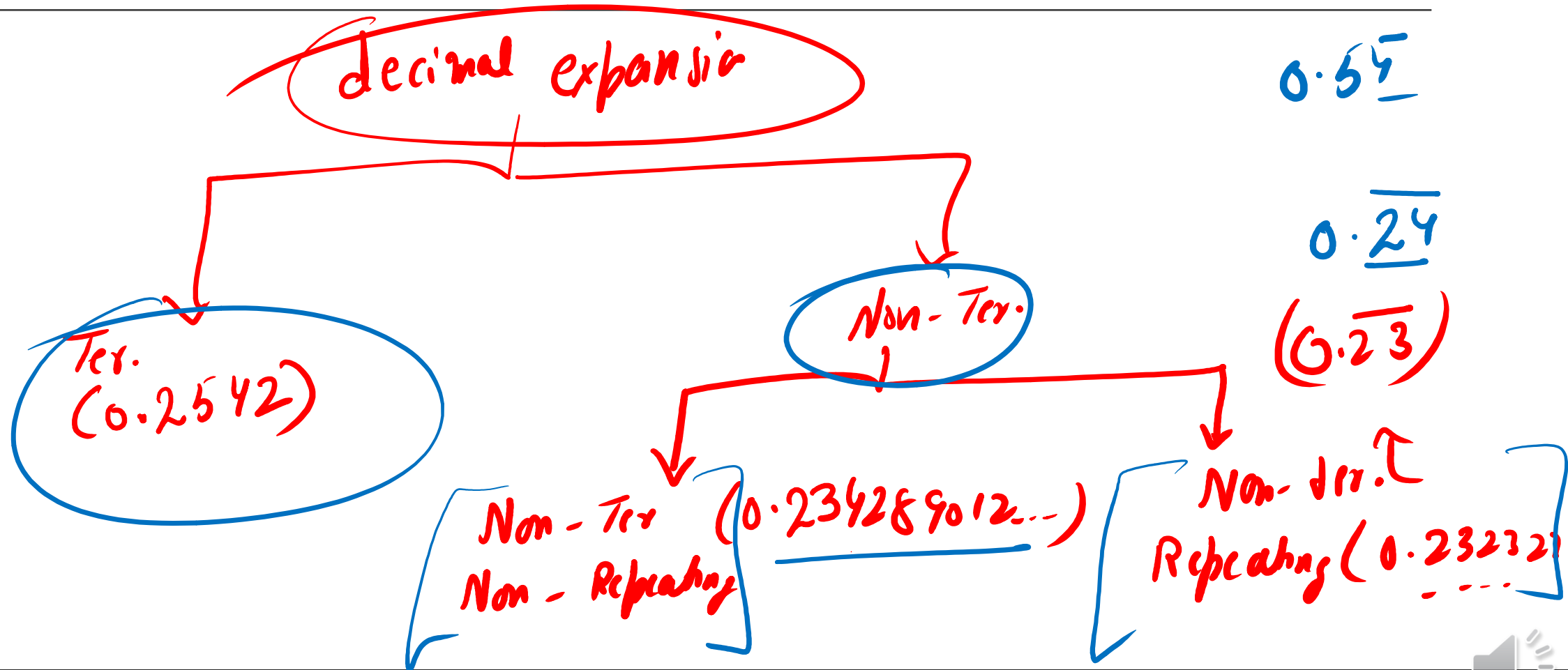


Revisiting Rational Numbers and Their Decimal Expansions. (exercise: 1.4)

NITISH KUMAR

Terminating decimal expansion and Non-Terminating decimal expansion



Method of determining terminating and non-terminating decimal expansion.

$\frac{2}{7}$

$$\left[\frac{1}{\underline{\underline{2^n 5^m}}} \right]$$

$$0.\underline{\underline{2857142}}\underline{\underline{2857}}$$



Without actually performing the long division, state whether the following rational numbers will have a terminating decimal expansion or a non-terminating repeating decimal expansion and Write down the decimal expansions of those rational numbers which have terminating decimal expansions.

$$\frac{13}{3125} = \frac{13}{5^5}$$

$$0.00416$$

$$\begin{array}{r} 5 \overline{) 3125} \\ \underline{5 } \\ 625 \\ \underline{5 } \\ 125 \\ \underline{5 } \\ 25 \\ \underline{5 } \\ 5 \\ \underline{5 } \\ 1 \end{array}$$

$$\begin{array}{r} 2 \\ 13 \overline{) 31000} \\ \underline{12500} \\ 4500 \\ \underline{45000} \\ 3125 \\ \underline{31250} \\ 18750 \\ \underline{18750} \\ 0 \end{array}$$

$$\frac{6}{15} = \frac{6}{3 \times 5} \rightarrow \text{non-terminating}$$





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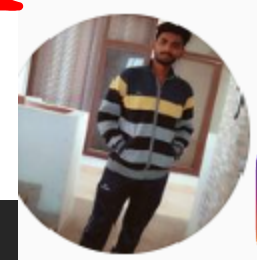
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