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Number Systems Class 9
Practice Set 2

Q.1 Express the following numbers in decimal form and say which kind of decimal expansion each has.

(i) $\frac{5}{8}$ (ii) $\frac{7}{25}$ (iii) $\frac{3}{11}$ (iv) $\frac{5}{13}$

(v) $\frac{11}{24}$ (vi) $\frac{261}{400}$ (vii) $\frac{231}{625}$ (viii) $2\frac{5}{12}$

Q.2 Express the following decimals in the form $\frac{p}{q}$.

(i) $0.\overline{2}$ (ii) $0.\overline{53}$ (iii) $2.\overline{93}$ (iv) $18.\overline{48}$

(v) $0.\overline{235}$ (vi) $0.00\overline{32}$ (vii) $1.3\overline{23}$ (viii) $0.3\overline{178}$

(ix) $32.12\overline{35}$ (x) $0.40\overline{7}$ (xi) $2.4\overline{178}$ (xii) $8.\overline{435}$

Q.2 Give an example of two irrational numbers whose

(i) difference is an irrational number.

(ii) difference is an rational number.

(iii) sum is an irrational number.

(iv) sum is a rational number.

(v) product is an irrational number.

(vi) product is an rational number.

(vii) quotient is an irrational number.

(viii) quotient is an rational number.