

$$1 \textcircled{i} \quad x^2 = 5$$

$$\Rightarrow x = \pm \sqrt{5}$$

irrational no.

$$\textcircled{ii} \quad y^2 = 9$$

$$\Rightarrow y = \pm \sqrt{9} \\ = \pm 3$$

rational no.

$$\textcircled{iii} \quad z^2 = 0.04$$

$$\Rightarrow z = \sqrt{0.04} \\ = 0.2$$

rational no.

$$\textcircled{iv} \quad u^2 = \frac{17}{4}$$

$$\Rightarrow u = \pm \frac{\sqrt{17}}{\sqrt{4}} \\ = \pm \frac{\sqrt{17}}{2}$$

irrational no.

$$2 \textcircled{i} \quad -1, -2$$

reqd rational nos

nos -1.1, -1.2, -1.3

or

$$-\frac{11}{10}, -\frac{12}{10}, -\frac{13}{10}$$

$$2 \textcircled{ii} \quad 0.1, 0.11$$

$$= 0.100, 0.110$$

reqd. rational numbers

$$0.101, 0.102, 0.103$$

$$\textcircled{iii} \quad \frac{5}{7}, \frac{6}{7}$$

$$= \frac{5}{7} \times \frac{10}{10}, \frac{6}{7} \times \frac{10}{10}$$

$$= \frac{50}{70}, \frac{60}{70}$$

required rational numbers

$$\frac{51}{70}, \frac{52}{70}, \frac{53}{70}$$

$$\textcircled{iv} \quad \frac{1}{4}, \frac{1}{5}$$

$$= \frac{5}{20}, \frac{4}{20}$$

$$= \frac{5}{20} \times \frac{10}{10}, \frac{4}{20} \times \frac{10}{10}$$

$$= \frac{50}{200}, \frac{40}{200}$$

reqd. rational nos

$$\frac{41}{200}, \frac{42}{200}, \frac{43}{200}$$