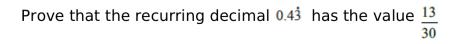
Recurring Decimals to Fractions





(Total for question = 2 marks)

Q2.

Express the recurring decimal 0.281 as a fraction in its simplest form.

.....

(Total for Question is 3 marks)

Recurring Decimals to Fractions

Q1.

Prove that the recurring decimal 0.43 has the value $\frac{13}{30}$

Let
$$x = 0.43333$$

$$10x = 4.3333$$

$$100x = 43.3333$$

(Total for question = 2 marks)

Q2.

Express the recurring decimal 0.281 as a fraction in its simplest form.

Let
$$x = 0.2818i$$

 $10x = 2.818i$
 $1000x = 281.818i$

$$\mathcal{Z} = \frac{279}{990} = \frac{93}{330} = \frac{31}{110}$$

(Total for Question is 3 marks)

$$0.281 = \frac{31}{110}$$