Express the recurring decimal $0.2\dot{1}\dot{3}$ as a fraction.

....

(Total 3 marks)

Express the recurring decimal $0.2\overset{\cdot\cdot}{13}$ as a fraction.

$$\text{Let} \quad x = 0.2131313\dots\dots$$

$$10x = 2.131313\dots\dots$$

$$1000x = 213.131313\dots\dots$$

$$990x = 211$$

$$x = \frac{211}{990}$$

$$\frac{211}{990}$$

....

(Total 3 marks)