TAKE 5 ... Recurring decimals

Q1. Prove algebraically that the recurring decimal $0.3\dot{1}\dot{8}$ can be written as $\frac{7}{22}$

(2)

Q2. Prove that the recurring decimal $0.4\dot{3}$ has the value $\frac{13}{30}$

(2)

Q3. Express the recurring decimal $0.1\dot{5}$ as a fraction. Give your answer in its simplest form.

(3)

Q4. $x = 0.04\dot{5}$ Prove algebraically that x can be written as $\frac{1}{22}$

(3)

Q5. Express the recurring decimal $x = 0.7\dot{5}\dot{0}$ as a fraction.

(3)