10 (a) Express $\dfrac{\sqrt{98} + \sqrt{18}}{\sqrt{5}}$ in the form $\sqrt{a}$ where a is a number to be found.

Show your working clearly.

(3)

(b) Given that $\dfrac{\sqrt{27}}{81^{\frac{4}{3}}} \times \sqrt{3} = 3^{x}$

find the value of x, giving your answer as a fraction in its simplest form.
Show your working clearly.

(3)

Question 10 continued

(Total for Question 10 is 6 marks)