

1 In this question you must show detailed reasoning.

Solve the following equations.

(a) $\frac{x}{x+1} - \frac{x-1}{x+2} = 0$ [3]

(b) $\frac{8}{x^6} - \frac{7}{x^3} - 1 = 0$ [3]

(c) $3^{x^2-7} = \frac{1}{243}$ [2]