1- Solve each of the following equations:

a. $\dfrac{x}{2x+1} = \dfrac{3x+2}{4x+3}$

b. $\dfrac{x}{x-2} + \dfrac{2}{x+3} = -\dfrac{10}{x^2+x-6}$

c. $x + \sqrt{x+6} = 0$

d. $\sqrt{6y-11} = 2y-7$

2- Solve each equation by using an appropriate substitution:

a. $81y^4 + 1 = 18y^2$

b. $x^{2/5} + x^{1/5} - 2 = 0$