7   **In this question you must show detailed reasoning.**

    (a) Show that $(x+2)^4 - 6(x+2)^2 - 16 \equiv x^4 + 8x^3 + 18x^2 + 8x - 24$.   **[1]**

    (b) Hence solve the equation $x^4 + 8x^3 + 18x^2 + 8x - 24 = 0$.   **[4]**