1. Solve the following radical equations **algebraically.** State restrictions at each stage of the solution process and identify any **extraneous roots**.

    a) $\sqrt{3x+4} = 10$

    b) $\sqrt{4-x} + 5 = 2$

    c) $x + 2\sqrt{x-3} = 6$

    d) $\sqrt{2x+5} - \sqrt{x-1} = 2$

Solutions: a) 32   b) no solution   c) 4   d) 10 , 2