1.115
1c3

$$\sqrt[3]{2x+3} - \sqrt[3]{2x+1} = 2 \quad /()^3$$

$$2x+3 - 3\sqrt[3]{(2x+3)^2(2x+1)} + 3\sqrt[3]{(2x+3)(2x+1)^2} - 2x-1 = 8$$

$$-3\sqrt[3]{(2x+3)(2x+1)}\left(\sqrt[3]{2x+3} - \sqrt[3]{2x+1}\right) = 6$$

$$-3\sqrt[3]{(2x+3)(2x+1)} \cdot 2 = 6 \quad /:-6$$

$$\sqrt[3]{(2x+3)(2x+1)} = -1 \quad /()^3$$

$$4x^2+8x+3 = -1$$

$$0 = 4(x^2+2x+1) = 4(x+1)^2 \Rightarrow \boxed{x=-1}$$