

Correct. If $3\sqrt[5]{x+3} + 4 = \sqrt[5]{x+3}$, then $2\sqrt[5]{x+3} = -4$, so $\sqrt[5]{x+3} = -2$. $(\sqrt[5]{x+3})^5 = (-2)^5 = -32$, so $x+3 = -32$. Therefore, $x = -35$.