

Correct. If  $3\sqrt[5]{3x} + 4 = 5\sqrt[5]{3x} + 3$ , then  $1 = 2\sqrt[5]{3x}$ , so  $\frac{1}{2} = \sqrt[5]{3x}$ . Then  $\left(\frac{1}{2}\right)^5 = \left(\sqrt[5]{3x}\right)^5$ , so  $\frac{1}{32} = 3x$ , and therefore  $\frac{1}{96} = x$ .