Exercise 3

(a) Using exponential notation, we can write $\sqrt[3]{5}$ as _____ .

(b) Using radicals, we can write $5^{1/2}$ as _____ .

(c) Is there a difference between $\sqrt{5^2}$ and $(\sqrt{5})^2$? Explain.

Solution

Using exponential notation, we can write $\sqrt[3]{5}$ as $5^{1/3}$.

Using radicals, we can write $5^{1/2}$ as $\sqrt{5}$.

There is no difference between $\sqrt{5^2}$ and $(\sqrt{5})^2$ because they both evaluate to 5.