

If  $\sqrt{x} + \sqrt{9} = \sqrt{64}$ , what is the value of  $x$ ?

- A)  $\sqrt{5}$
- B) 5
- C) 25
- D) 55

$$\sqrt{x} + \sqrt{9} = \sqrt{64}$$

$$\sqrt{x} + 3 = 8$$

$$(\sqrt{x})^2 = (5)^2 \rightarrow x = 25$$

$$\begin{aligned}\sqrt{x} + \sqrt{9} &= \sqrt{64} \\ -\sqrt{9} &\quad -\sqrt{9} \\ \sqrt{x} &= \sqrt{55} \quad \text{disagree} \\ x &= 55\end{aligned}$$

$$8 - 3 = 5$$

$$\sqrt{a} \pm \sqrt{b} \times \sqrt{a \pm b}$$

$$\sqrt{a} \cdot \sqrt{b} = \sqrt{a \cdot b}$$

$$\begin{aligned}\sqrt{64} - \sqrt{9} \\ \sqrt{64-9} \times \sqrt{55} = 7.41 \dots\end{aligned}$$

$$\begin{aligned}\sqrt{4} \cdot \sqrt{9} &= \sqrt{36} = 6 \\ 2 \cdot 3 &= 6\end{aligned}$$

$$\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$$

If  $(\sqrt{x} + \sqrt{9})^2 = (\sqrt{64})^2$ , what is the value of  $x$ ?

- A)  $\sqrt{5}$
- B) 5
- C) 25
- D) 55

$$\begin{aligned}x+9 &= 64 \\ -9 &\quad -9\end{aligned}$$

$$x = 55$$

disagree

$$\sqrt{x} + \sqrt{9} = \sqrt{64}$$

$$\begin{aligned}\sqrt{x} + 3 &= 8 \\ -3 &\quad -3\end{aligned}$$

$$\begin{aligned}\sqrt{x} &= 5 \\ x &= 25\end{aligned}$$

$$\boxed{x = 25}$$

$$(\sqrt{x} + \sqrt{9})^2 = (\sqrt{64})^2$$

$$(a+b)^2 \neq a^2 + b^2$$

$$\underline{a^2 + 2ab + b^2}$$