

You did not distribute when multiplying the numerator by the denominator's conjugate. Multiply the numerator and denominator by the conjugate of the denominator:

$$\frac{5}{(\sqrt{x} + 5)} \cdot \frac{(\sqrt{x} - 5)}{(\sqrt{x} - 5)}$$

Use the Distributive Property and FOIL and simplify radicals. The correct answer is: $\frac{5\sqrt{x} - 25}{x - 25}$