



FINDING THE VALUE OF THE EXPRESSION:

1-

$$A = \sqrt{5 + 2\sqrt{6}} - \frac{1}{\sqrt{5 + 2\sqrt{6}}}$$

$$A = \sqrt{(\sqrt{2} + \sqrt{3})^{2}} - \frac{1}{\sqrt{(\sqrt{2} + \sqrt{3})^{2}}}$$

$$A = \sqrt{2} + \sqrt{3} - \frac{1}{\sqrt{2} + \sqrt{3}}$$

$$A = \sqrt{2} + \sqrt{3} - \frac{1(-(\sqrt{2} - \sqrt{3}))}{(\sqrt{2} + \sqrt{3}) \times (-(\sqrt{2} - \sqrt{3}))}$$

$$A = \sqrt{2} + \sqrt{3} - (-(\sqrt{2} - \sqrt{3}))$$

$$A = \sqrt{2} + \sqrt{3} + (\sqrt{2} - \sqrt{3})$$

$$A = \sqrt{2} + \sqrt{3} + \sqrt{2} - \sqrt{3}$$

$$A = \sqrt{2} + \sqrt{3} + \sqrt{2} - \sqrt{3}$$

$$A = 2\sqrt{2}$$

-2

SOLVING THE EQUATION:

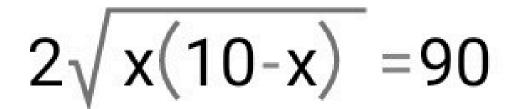
$$\sqrt{x} + \sqrt{10-x} = 10$$

$$(\sqrt{x} + \sqrt{10-x})^{2} = 10^{2}$$

$$x+10-x+2\sqrt{x(10-x)} = 100$$







$$\sqrt{x(10-x)} = 45$$

$$x(10-x)=45^2$$

$$x(10-x)=2025$$

$$\sqrt{10-x} > 0$$

$$10-x>0$$

$$0 \le x \le 10$$

SINCE 2025 IS DIVISIBLE BY 5 X=5, BUT

THE EQUALITY IS NOT ACHIEVED, AND THEREFORE THE EQUATION HAS NO SOLUTION



