$x - 2 = \sqrt{x + 10}$

Which of the following values of x is a solution
to the equation above?

A. -1

B. 1

C. 2

D. 6

$-1-2 = \sqrt{-1+10}$

$-3 = \sqrt{9}$

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

$x^2 - 4x + 2^2 = x+10$

$x^2 - 4x - x = -4 + 10$

$x^2 - 5x - 6 = 0$

2PT

Guess & check

(D)

$6 - 2 = \sqrt{6+10}$

✓ $4 = 4$

$x \cdot y = 6$

$2 \cdot 3 = 6$

$\begin{array}{c} -6 \\ -6 \quad \diagdown \quad 1 \\ -5 \end{array}$

$(X-6)(X+1) = 0$

$X - 6 = 0$ $X+1=0$

$X = 6$ $X = -1$