

EQUATIONS: Quadratic: Square both sides

 **2024** Watch video and complete examples

Lesson Notes and Examples:

Example 1

$$\sqrt{3x + 10} = x + 2$$

Example 2

$$8 - 2\sqrt{2x + 5} = x$$

Solve:

1) $\sqrt{11 - x} = x + 1$

4) $x - 7 = \sqrt{2x + 1}$

2) $4\sqrt{x - 3} - 3 = 2x - 9$

5) $\sqrt{10 - x} - x = 2$

3) $2x = \sqrt{2x + 5} + 1$

6) $\sqrt{22 - 7x} - x = -4$

 Mark work and do corrections. [1-3]

 Mark work and do corrections. [4-6]

7) $x + 2 = \sqrt{9x + 18}$

8) $1 - 2x + \sqrt{5x - 1} = 0$

9) $\sqrt{12 + x} = \sqrt{x} + 3$

 Mark work and do corrections. [7-9]

10) $x - 4 = \sqrt{56 - 5x}$

11) $2\sqrt{4 - 4\sqrt{x} + x^2} = 2\sqrt{x} - 4$

12) $x - 0,5 = \sqrt{3,25 - x^2}$

 Mark work and do corrections. [10-12]