

1) $x - \sqrt{x} = 30$ (замена $t = \sqrt{x}, t \geq 0$)

2) $\sqrt{x} - \frac{6}{\sqrt{x}} = 1$

3) $\sqrt[3]{x} + 2\sqrt[6]{x} = 3$ ($\sqrt[6]{x} = t, t \geq 0$)

4) $\sqrt{2-x} - 20 = \sqrt[4]{2-x}$

5) $10\sqrt{x^2-x-1} = 13 - \frac{3}{\sqrt{x^2-x-1}}$

6) $\sqrt{5+2x} = 10 - 3\sqrt[4]{5+2x}$

7) $\sqrt{x^2 - 2x - 1} = \frac{14}{\sqrt{x^2 - 2x - 1}} - 5$