

### **FITXA 3**

## **Equacions irracionals**

Resol aquestes equacions amb radicals:

1.  $x + \sqrt{x} = 30$
2.  $\sqrt{x} + 1 = \sqrt{x+9}$
3.  $\sqrt{7-3x} - x = 7$
4.  $\sqrt{x+4} = 3 - \sqrt{x-1}$
5.  $5\sqrt{x} + 3 = 2x$
6.  $3\sqrt{6x+1} - 5 = 2x$
7.  $\sqrt{4x+5} - \sqrt{3x+1} = 1$
8.  $\sqrt{2x-1} + \sqrt{x+4} = 6$
9.  $1 + \sqrt{x+1} = \frac{x}{3}$
10.  $\sqrt{x^3} - 2\sqrt{x} = \sqrt{x}$
11.  $\sqrt{x-3} + \sqrt{x+4} = \sqrt{4x+1}$
12.  $2\sqrt{x+4} = \sqrt{5x+4}$
13.  $\sqrt{x^2+3x+7} = 5$
14.  $3 - \sqrt{x} = x + 1$
15.  $2\sqrt{2x-1} = \sqrt{6x-5} + \sqrt{2x-9}$
16.  $\sqrt{2x+5} + 6 = 3x + 3$