

Equations Involving Surds.

While solving equations involving surds, usually we have to square, on squaring the domain of the equation extends and we may get some extraneous solutions, and so we must verify the solutions and neglect those which do not satisfy the equation.

Note that from $ax = bx$, to conclude $a = b$ is not correct. The correct procedure is $x(a - b) = 0$ i.e. $x = 0$ or $a = b$. Here, necessity of verification is required.