### 2.3 Solving Radical Equations:

Algebraically:

1. Isolate the radical.
2. Square/cube both sides to remove the radical.
3. Solve.
4. Check with original equation for extraneous solutions.

Graphically:
Find intersection points between LHS and RHS.
OR
Set one side to zero and find the roots.

Examples: Solve:
a.) $3 \sqrt{x}=12$
b.) $\sqrt{5 x-2}-6=0$
c.) $5+\sqrt{3 x-1}=3$
d.) $\sqrt{x+2}-x=0$
e.) $\sqrt{3 x+7}-x=1$
f.) $\sqrt[3]{x-10}+x=0$

