

## Formative Assessment #35 – Solving Radical Equations

**AN3.1:** I can determine any restrictions on values for the variable in a radical equation.

**AN3.2:** I can determine the roots of a radical equation algebraically.

**AN3.3:** I can verify, by substitution, that the values determined in solving a radical equation algebraically are roots of the equation (identify any extraneous roots). *Please use LS/RS Charts when verifying possible solutions.*

Solve the following radical equations. State restrictions on the variables, verify your answers and identify the solutions and the extraneous roots.

*Please answer on your own paper.*

1.  $\sqrt{x+1} + 7 = -3$

2.  $3\sqrt{m-4} = 9$

3.  $\sqrt{2x+15} = x$

4.  $\sqrt{2x-5} = x-4$