**15.4 – Equations Containing Rational Exponents**

1. Isolate the term containing the rational exponent.

1. Raise both sides to a power that is the reciprocal of the power in the problem.

3. Solve for $x$.

4. Write the solution.

Examples:

1. $x^{\frac{4}{3}}=16$ solution:\_\_\_\_\_\_\_\_\_\_\_
2. $\left(3x\right)^{\frac{1}{2}}-6=0$ solution:\_\_\_\_\_\_\_\_\_\_\_

3. $\left(x -1\right)^{\frac{3}{2}}=8$ solution:\_\_\_\_\_\_\_\_\_\_\_

4. $-3\left(2x+4\right)^{\frac{2}{3}}=-12$ solution:\_\_\_\_\_\_\_\_\_\_\_