1.8.16 Everyone needs a calculator again today.

Solve each equation. Remember to check for extraneous solutions.

Step 1: Isolate the square root

Step 2: Square both sides

Step 3: Solve resulting equation.

Step 4: Check your answer to make sure it is not extraneous!

Step 4: Check your answer to make sure it is not extraneous!

$$5(\sqrt{17-n}) = \sqrt{(n-7)}$$
 $17-12 = \sqrt{12-7} = \sqrt{(1-9n)} = \sqrt{(-1-11n)}$
 $17-n = n - \sqrt{7}$
 $17-12 = \sqrt{12-7} = \sqrt{12-7} = \sqrt{12-11n}$
 $17-12 = \sqrt{1$