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| **Topic/Skill** | **Definition/Tips**  **Topic: Iteration** | **Example** |
| 1. Iteration | The act of **repeating a process** over and over again, often with the aim of **approximating** a desired result more closely.  **Recursive** Notation: |  |
| 2. Iterative Method | To create an iterative formula, **rearrange** an equation with more than one x term to **make one of the x terms the subject**.  You will be given the first value to substitute in, often called .  **Keep substituting in your previous answer** until your answers are the same to a certain degree of accuracy. This is called converging to a limit.  Use the ‘ANS’ button on your calculator to keep substituting in the previous answer. | Use an iterative formula to find the positive root of to 3 decimal places.    Answer:  So  Keep repeating…  So answer is |

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