Excel Goal Seek Function

- Goal Seek are part of a suite of commands sometimes called what-if analysis.
- Goal Seek uses a process of changing the values in cells to see how those changes affect the outcome of formulas on the worksheet.
- The command use iteration in a controlled way to obtain desired results.
- You can use Goal Seek when you know the desired result of a single formula but not the input value the formula needs to determine the result.

Excel Goal Seek Function

- To understand how Goal Seek works and how you might apply this function, consider the following problem
- We will use Goal Seek to find a number to make the sum equal to 100:

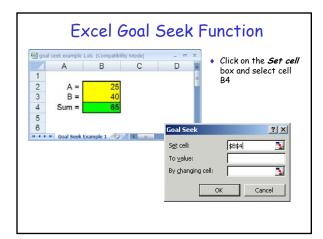
 On the Data tab, in the Data Tools group, click What-If Analysis, and then click Goal Seek.

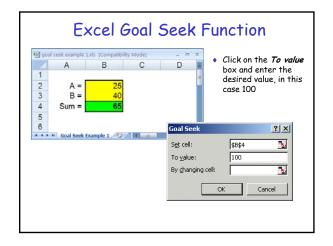
Excel Goal Seek Function

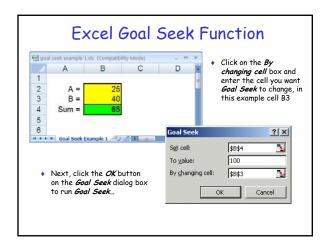
- To understand how Goal Seek works and how you might apply this function, consider the following problem
- We will use Goal Seek to find a number to make the sum equal to 100:

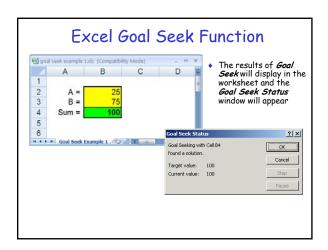
- In Goal Seek: Set Cell: click on B4; To Value: enter 100; By Changing Cell: click on B3
- The sum in B4 should now be 100, and the value in cell B3 should be 75

Excel Goal Seek Function Seek Function On the Data tab, in the Data Tools group, click What-If Analysis, and then click Goal Seek. Seek Seek Seek Seek OK Cancel









Excel Goal Seek Function

- Troubleshooting a Goal Seek
 - Make sure the Set cell reference is to a cell that contains a formula, function, or cell reference
 - Make sure the To value cell value is a reasonable value
 - Make sure the By changing cell reference is a number or blank, and not a formula, function, or cell reference
 - Make sure there is a link by formulas between the two cells you entered in the Goal Seek.
 - However complicated the link might be, they must be related for the Set cell to be a function of the By changing cell

Excel Goal Seek Function

- Could we use the Goal Seek function to solve root finding problems?
- How would you formulate this problem?

$$f(x) = 0$$

- What would be the Set cell reference?
- What would be the *To value* cell value?
- What would be the By changing cell reference?

