Mean Value Property of the Laplace Equation

Show that the solution of the discrete Laplace equation at grid point (i, j) on a uniform grid is just the average value of the solution at the neighboring four grid points,

$$(i+1, j), \quad (i-1, j), \quad (i, j+1), \quad (i, j-1)$$

Completed **Go to next item**

Like **Dislike** **Report an issue**