

On your Mark: Put your surface $f(x, y)$ on the rectangular coordinate grid so that the Blue Dot is located above the point $(2, 3)$. Write down the coordinates of each of the three marked points, namely the Blue Dot, the Red Star, and the Green Triangle.

Get Set: Starting at the Blue Dot, answer the following questions:

1. Suppose y changes but x stays fixed at 2. Draw the graph of this function on your surface and here. Give your new function a name.
2. Suppose x changes but y stays fixed at 3. Draw the graph of this function on your surface and here. Give your new function a name.

Go: What is the relationship between your two new functions and $f(x, y)$?