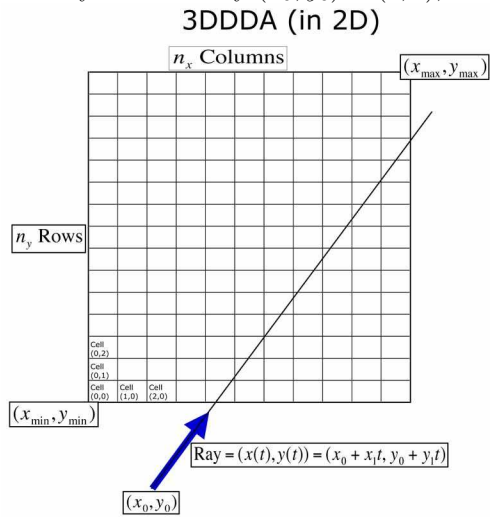


Due Tuesday, 22 March

For this 3DDDA grid (in 2D),  $(x_{min}, y_{min}) = (5, 2)$ ,  $(x_{max}, y_{max}) = (15, 12)$ , and  $n_x = n_y = 10$ . The ray is defined by  $(x_0, y_0) = (1, 1)$ , and  $(x_1, y_1) = (3, 2)$ .



What is the first cell that the ray hits?

What is the value of  $t$  at which the ray hits that cell?

What are the  $(x, y)$  coordinates at which the ray enters the first cell?

What is the second cell that the ray hits?

What is the third cell that the ray enters?