$y = \frac{5}{8}x$

D_i $\Delta x - 2\Delta y$

$D_{i+1} = \begin{cases} D_i - 2\Delta y & \text{if } D_i \geq 0 \\ D_i - 2\Delta y + 2\Delta x & \text{if } D_i < 0 \end{cases}$

$\Delta x = 8$ $2\Delta x = 16$

$\Delta y = 5$ $2\Delta y = 10$

$D_1 = \Delta x - 2\Delta y = 8 - 10 = -2$ < 0 East

$D_2 = D_1 + 2\Delta x = -2 + 16 = 14$ ≥ 0 N. East

$D_3 = D_2 - 2\Delta y = 14 - 10 = 4$ ≥ 0 East

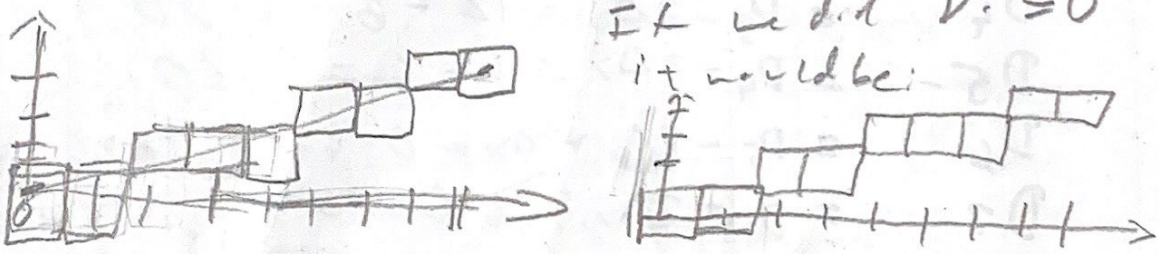
$D_4 = D_3 - 2\Delta y = 4 - 10 = -6$ < 0 N. East

$D_5 = D_4 + 2\Delta x = -6 + 16 = 10$ ≥ 0 East

$D_6 = D_5 - 2\Delta y = 10 - 10 = 0$ ≥ 0 East

$D_7 = D_6 - 2\Delta y = 0 - 10 = -10$ < 0 N. East

$D_8 = D_7 + 2\Delta x = -10 + 16 = 6$ ≥ 0 East



which one do we use?