$$m{D}_x = rac{\Delta y \Delta x}{\Delta x} \left[ egin{array}{cccccc} -1 & 1 & 0 & 0 & 0 & 0 \ 0 & -1 & 1 & 0 & 0 & 0 \ 0 & 0 & 0 & -1 & 1 & 0 \ 0 & 0 & 0 & 0 & -1 & 1 \end{array} 
ight]$$