Diagonal 6x6 Sudoku
Solve the $6 \times 6$ sudoku below such that each row, column, and $3 \times 2$ box contains each digit from 1 to 6 with no repeats. The sums of the diagonals from top-left to bottom-right are given above or to the left of the grid.


| 20 | 16 |  | 7 | 7 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 14 | 1 |  | 6 | 1 | 1 |  |
|  |  |  | 4 | 6 |  |  |
| 4 | 4 | 5 |  |  | 6 | 1 |
| 10 | 1 | 6 |  |  | 3 | 5 |
|  |  |  | 5 | 3 |  |  |
|  |  |  | 1 | 5 |  |  |



