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~~Settlers of Catan~~ A board game is played on a hexagonal grid of 19 tiles. A 'traveler' token starts on the center tile. Each turn a die is rolled to determine what neighboring tile the traveler moves to (all six directions equally likely). The turn that the traveler leaves the board, the game ends. What is the expected number of turns of the game?

A diagram of a hexagonal lattice with 37 cells. The central cell is labeled 0 and has a red dot. Cells 1 through 14 are labeled with black numbers and have red dots. Cells 15 through 36 are labeled with black numbers and have green dots. The lattice is surrounded by 21 green dots labeled 21 through 36, which are not part of the lattice cells.

$$\mathbb{E}(N) = \sum N \mathbb{P}(N)$$

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[illegible]

$$t = N\mathbf{1}$$
[illegible]

Finally, we see that $t_0 = \boxed{\frac{213}{29} \approx 7.345}$