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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 structure. The central cell is labeled 0 and contains a red dot. Cells 1 through 14 are labeled with black numbers and contain red dots. Cells 15 through 36 are labeled with black numbers and contain green dots. The lattice is surrounded by 21 green dots labeled 19 through 36, 38 through 44, and 46 through 52.

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

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[illegible]

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

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