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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 hexagonal grid of 19 cells, numbered 0 to 18. Cell 0 is the central cell. Cells are numbered in a spiral pattern starting from the center. Each cell contains a red dot. The grid is surrounded by 21 green dots, numbered 19 to 39, representing the next layer of the hexagonal lattice.

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

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[illegible]

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

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