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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?

The diagram shows a hexagonal lattice structure. The internal nodes are numbered 0 through 18, and the external nodes are numbered 19 through 30. The nodes are arranged in a honeycomb pattern. The central node is 0, and the nodes are numbered in a spiral-like fashion. The external nodes are numbered 19 through 30, with 19 being the top-right node and 30 being the bottom node.

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

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[illegible]

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

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