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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, with 19 nodes forming the inner structure and 30 nodes forming the outer boundary. Each node is marked with a red dot and a number. The nodes are arranged in a honeycomb pattern, with 19 nodes forming the inner structure and 30 nodes forming the outer boundary.

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

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[illegible]

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

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