



$\text{adjacent} = \text{cells_per_generation}/2$
 $\text{opposite} = \tan(\theta) * \text{adjacent}$
 $\text{deque_len} = \tan(\theta) * \text{cells_per_generation}/2 + \text{cells_per_generation}/2$

simplify and ensure deque_len is an int
 $\text{deque_len} = \text{floor}(\text{cells_per_generation} * (1/2 * \tan(\theta) + 1/2))$