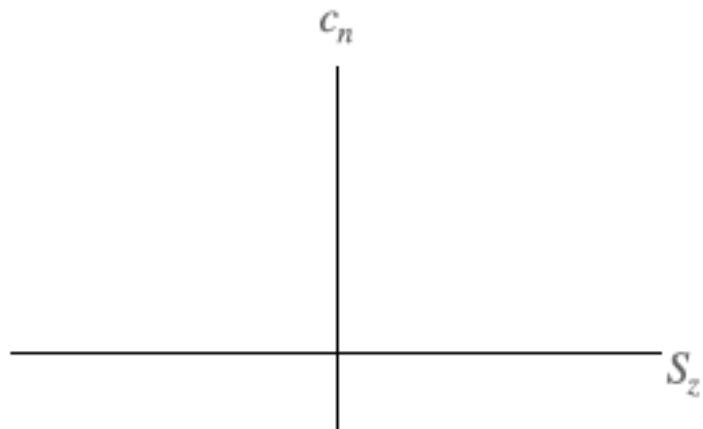


**Student handout** Represent the state:

$$|\psi\rangle = \frac{1}{3} |+\rangle + \frac{\sqrt{8}}{3} e^{i\pi/4} |-\rangle$$

1. in matrix notation (using the  $S_z$  basis)
2. with a graph of the coefficients (probability amplitudes)



3. with the arms representation
4. with a probability histogram

