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Reference electrodes have many applications, including:

Electrochemical measurements: Reference electrodes are used as a standard in electrochemical measurements to provide a stable reference potential. They are used in a variety of electrochemical applications, such as:

pH measurements: Reference electrodes are used in clinical applications to measure pH levels in the brain, heart, and blood.

- -> Corrosion studies: Reference electrodes are used to measure the corrosion potential of a metal surface, and to evaluate the rate and behavior of corrosion.
- -> Environmental monitoring: Reference electrodes are used to measure pH and redox potential in water, soil, and the atmosphere.
- -> Electrochemical cells: Reference electrodes are used as a half-cell to buil

2) White the equation to determine pH using a reference electrode.

The pH of solution in a cell: Reference electrode H3Q+(?) H2 pt can be determined by using the formula pH=-[2cell+2ref]0.059.

Where Ecell is the measured cell potential, and Eref is the potential of the reference electrode.

Please ensure to double-check this information against your specific conditions and setups.