

Graph-Theoretic Property: *atis*DiscreteSegment

(Graph-theoretic properties are those properties that are part of the meta-theory and have been abducted from graph theory to be used as a tool to provide solutions concerning the theory. Those solutions may be assigned as values to components or relations of the theory and thereby become part of the theory.)

Discrete segment, $|(\mathbf{x}, \mathbf{y})^{\rightarrow}_{n=1}| = 1$, =_{df} A path between two and only two elements.

$$|(\mathbf{x}, \mathbf{y})^{\rightarrow}_{n=1}| = 1 =_{df} \{(\mathbf{x}, \mathbf{y}) \mid (\mathbf{x} = \mathbf{x}_0, \mathbf{y} = \mathbf{x}_1)\}.$$

Discrete segment, the cardinality of an ordered pair, is defined as a set of ordered pairs such that the first and second elements are singularly sequential.