

### **euclidean and non euclidean pdf**

In mathematics, non-Euclidean geometry consists of two geometries based on axioms closely related to those specifying Euclidean geometry. As Euclidean geometry lies at the intersection of metric geometry and affine geometry, non-Euclidean geometry arises when either the metric requirement is relaxed, or the parallel postulate is replaced with an alternative one.

### **Non-Euclidean geometry - Wikipedia**

The (non-reflex) angle  $\hat{\angle}(x, y)$  ( $0^\circ \leq \hat{\angle}(x, y) \leq 180^\circ$ ) between vectors  $x$  and  $y$  is then given by  $\hat{\angle}(x, y) = \arccos\left(\frac{x \cdot y}{\|x\| \|y\|}\right)$  where  $\arccos$  is the arccosine function. It is useful only for  $n > 1$ , and the case  $n = 2$  is somewhat special. Namely, on an oriented Euclidean plane one can define an angle between two vectors as a number defined modulo 1 turn (usually denoted as either  $2\pi$  or  $360^\circ$ ), such that ...

### **Euclidean space - Wikipedia**

The heuristic function  $h(n)$  tells  $A^*$  an estimate of the minimum cost from any vertex  $n$  to the goal. It's important to choose a good heuristic function. Use of the Heuristic The heuristic can be used to control  $A^*$ 's behavior. At one extreme, if  $h(n)$  is 0, then only  $g(n)$  plays a role, and  $A^*$  turns into Dijkstra's Algorithm, which is guaranteed to find a shortest path.

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