

2.4. Pinned Endpoint. The pinned endpoint case is quite different; there is no clear equivalence to a distinct distance problem. Here, we consider angles of the form $\angle ABC$ for a special point A , where B and C can be chosen freely from the remaining points.

In two dimensions, Lemma 1.9 again gives us a lower bound of $\Omega(n)$. With regard to an upper bound, in any configuration, there are $O(n^2)$ angles formed with A as a pinned endpoint since there are only $\binom{n-1}{2}$ choices for the other two points. No nontrivial upper bound is known.

In three dimensions, we have the lower bound stated in Theorem 1.4, which we repeat here for convenience:

Theorem 1.4. *Consider a configuration of n points in general position in three dimensions, and pin a point A . The minimum number of angles formed with A as an endpoint is $\Omega(\sqrt{n})$.*

Proof. The proof is very similar to that of Theorem 1.2. Fix a point B (in addition to the pinned point A). In our proof of Theorem 1.2, we focused on angles that have center point A and angles that have center point B , which leads us to consider the intersection of two cones. Instead, we now focus on angles that have endpoint A and center point B and angles that have A and B as the two endpoints. As discussed in Section 2.1, this leads us to consider a cone and a spindle torus, both with axis AB , the intersection of which is again a circle (see Figure 4). The rest of the proof continues in the same manner as the proof of Theorem 1.2: there can only be three points on any intersection of a particular cone with a particular spindle torus. So, if x is the number of distinct cones formed and y is the number of distinct spindle tori formed, we have $n \leq 3xy + 2$. The number of distinct angles with A as one of the endpoints is at least $\max(x, y)$, which (under the constraint that $xy \geq (n - 2)/3$) is minimized when $x = y = \sqrt{(n - 2)/3}$. \square

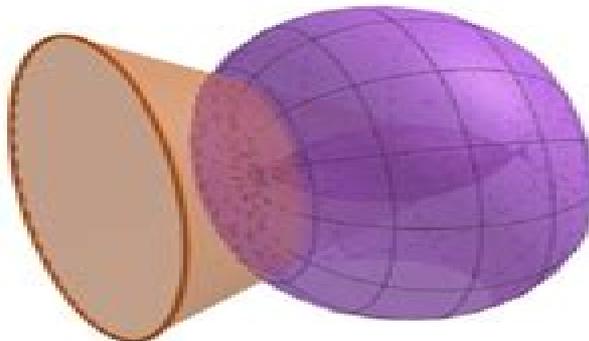


FIGURE 4. The intersection of a cone and spindle torus that share the same axis is a circle.

While Theorem 1.3 provides a new and nontrivial lower bound, it seems intuitive that a much higher lower bound would hold; indeed, in the proof of the theorem, we did not consider any angles that were not formed with the fixed point B . In the absence of any known construction in three dimensions with fewer than the trivial order n^2 distinct angles with a pinned endpoint, we therefore conjecture the following.

Conjecture 2.3. *For any configuration of n points in general position in two or three dimensions, the number of distinct angles formed with a pinned point A as one of the endpoints is $\Theta(n^2)$.*

Conjecture 2.3 clearly implies, and is a much stronger conjecture than, Conjecture 1.5.

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