

**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  $x = y = \sqrt{(n - 2)/3}$ .  $\square$

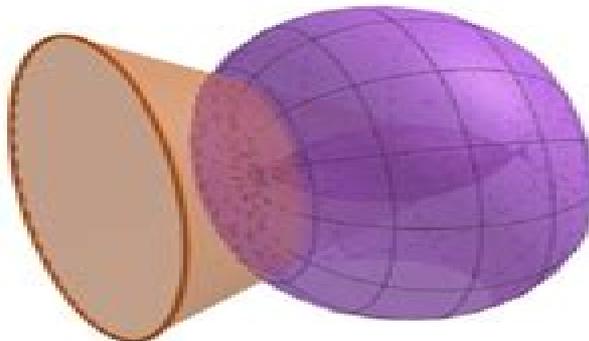


FIGURE 4. The intersection of a cone and spindle torus that share the same axis is a circle.

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.

# Three Dimensions

**James Clerk Maxwell**



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