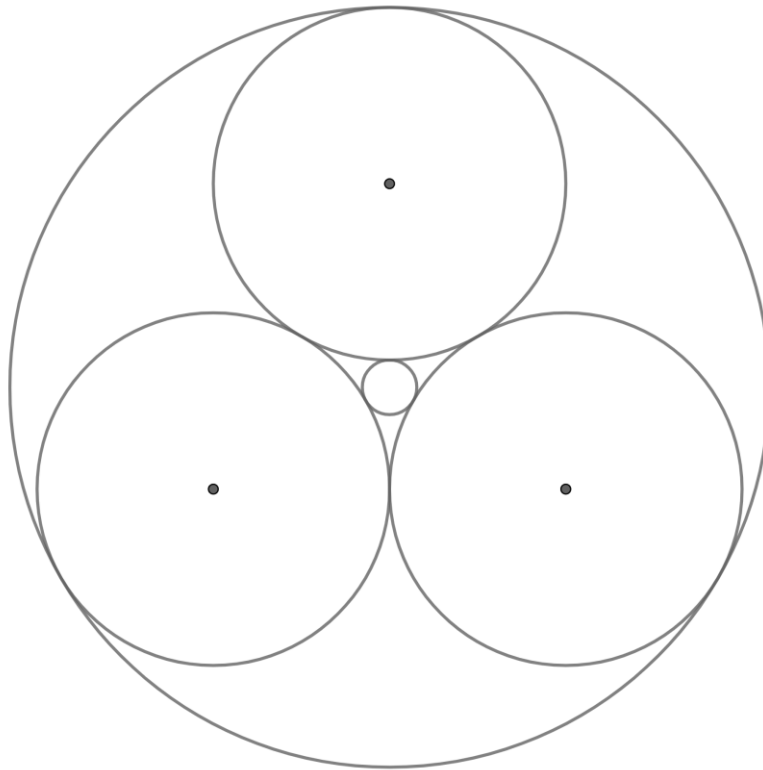


Pi Mu Epsilon Problem of the Month

October 2026



Consider three circles each of radius of 1, positioned to be mutually tangent and so that each is tangent to a larger circle. One tiny circle is inscribed inside the three circles of radius 1. Find the radius of the tiny circle.

Problem of the Month Rules:

- ⌘ Submissions must include a complete mathematical justification along with the answer.
- ⌘ Submissions may only be made by individuals, or groups of two, and must be dated.
- ⌘ Due date: October 26, 2026, before 5 p.m. to Dr. David Shoenthal or Dr. Phillip Poplin.

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