

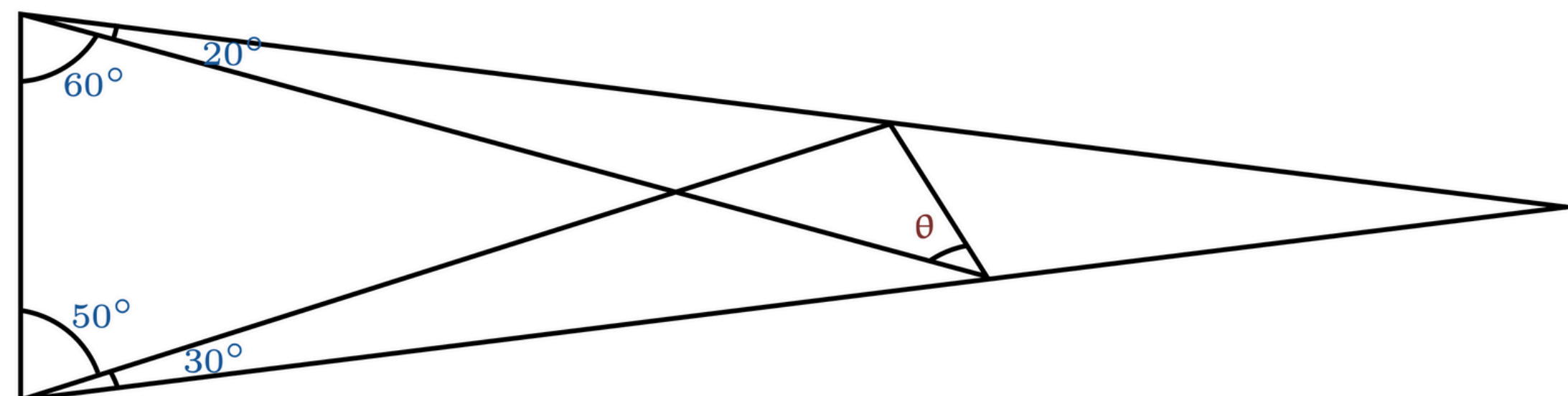


# MATH PROBLEM OF THE WEEK

## Fall 2025

### Problem 9

Find the angle  $\theta$  in the diagram below. Justify your answer:



**We welcome solutions from everyone. The undergraduate participant from the NMSU main campus with the most correct solutions at the end of the semester will receive an award of \$500.**

Solutions must be mathematically rigorous and originally obtained by the participants. Participants will be notified if their solutions are correct within a week.

**Deadline: Monday, December 1, 10 am**

This is the last problem of Fall 2025 and carries points equivalent to three problems. We will return in February 2026.

**Send solutions to: [mathpotw@nmsu.edu](mailto:mathpotw@nmsu.edu)**  
**More information at: <https://math.nmsu.edu/activities/math-problem-of-the-week.html>**