

NOVEMBER/DECEMBER

SOLVE FOR m, n

Find all possible values of m and n so that 18^{10} is the least common multiple of $\{m, 6^{10}, n\}$ where m and n are distinct.

RULES

- (1) You must be an undergraduate enrolled in classes at USC-Columbia.
- (2) Write your solutions clearly and show all of your work.
- (3) Staple all sheets together.
- (4) Bring your solutions to the math office (LC 411) and drop it in the box provided.
- (5) **Include your name and email address.**
- (6) Sign the drop-off sheet to record your submission.

Look for a new problem on the 15th of every month!