

UC Merced Applied Math Problem of the Month

March 2024

$$\sqrt{\begin{array}{|c|c|} \hline P & I \\ \hline \end{array}} + \begin{array}{|c|} \hline E \\ \hline \end{array} = \sqrt{\begin{array}{|c|c|c|} \hline P & I & E \\ \hline \end{array}}$$

Let P, I, E be three different integers between 1 and 9 (inclusive). Find their values that satisfy the equation shown in the image.

❖ This problem is based on the International Math Day Competition P5, Poland, 2021.

To submit your solutions for a chance to win an Amazon gift card, and to find out detailed contest rules,

- scan the QR code to the right, or
- go to <https://bit.ly/UCM-POTM>

