
Problem of the Week

Number Six

October 17, 2016

Having taken last week off, I think we need a cold splash of water to get us back into the swing of things. Here's Shakespeare's twelfth sonnet, in which he ponders the ravages of time:

*When I do count the clock that tells the time,
And see the brave day sunk in hideous night;*

*When I behold the violet past prime,
And sable curls all silver'd o'er with white;*

*When lofty trees I see barren of leaves
Which erst from heat did canopy the herd,*

*And summer's green all girded up in sheaves
Borne on the bier with white and bristly beard,*

*Then of thy beauty do I question make,
That thou among the wastes of time must go,*

*Since sweets and beauties do themselves for-
sake
And die as fast as they see others grow;*

*And nothing 'gainst Time's scythe can make
defence*

*Save breed, to brave him when he takes thee
hence.*

That's rather gloomy, if beautifully written. In this it differs from this week's problem, which is less eloquent, but decidedly more enjoyable.

My accurate, twelve-hour, circular clock has sixty, equally-spaced, minute marks, one at each minute. Identify all the times after 12:00 that my clock's continuously moving hour and minute hands point directly to consecutive minute marks.

Think you have it figured out? Then follow these instructions to the letter:

*Submissions are due to Jason Rosenhouse by 5:00 on **Friday, October 21**. Solutions should be written on the back of an official POTW handout. Place your name, e-mail address, and the section numbers and professors of any math courses you are taking, in the **upper right corner** of the front of the page. One weekly winner will receive a five-dollar gift card from Starbucks. Solutions will be posted at this website, by the Monday after the problem is due:*

<http://educ.jmu.edu/~rosenhjd/POTW/Spring15.html>