## Problem of the Week

Finishing date: 10/06/2017

Find all strictly decreasing functions $f(x)$ from the positive real numbers to the positive real numbers such that, for any positive real $x$ and $y$, the following holds:

$$
f(x f(y))=y f(x)
$$

Previous problem winners:
Stephen Skapek (first solution)

M.C. Escher (1948)

All the information about the Problem of the Week challenge can be found at: utdallas.edu/math/undergraduate/problem-of-the-week


