



## Problem of the Week

### Problem D

### Power Play

Often a power can be rewritten as another power. An example of this is  $9^3 = 27^2$ . Another example is  $(-5)^4 = 25^2$ .

If  $x$  and  $y$  are integers, find all ordered pairs  $(x, y)$  that satisfy the equation

$$(x - 1)^{x+y} = 2^6.$$

