## Problem of the Week \#5 <br> (Spring 2017)

Does the equation

$$
a^{2}+b^{7}+c^{13}+d^{14}=e^{15}
$$

have a solution in positive integers $a, b, c, d, e$ ?
[Please fully explain your answer.]
Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, March 1, 2017.

Every week, the best solution submitted earns a $\$ 10$ Platteville gift certificate; the top scorer each semester also wins a cash award. Good luck!
You can always see the Problem of the Week (and complete rules) online at:

