

## Answer on Question #82605 – Math – Abstract Algebra

### Question

Find the least nonnegative residue of  $365 \pmod{5}$

### Solution

Since  $5 \mid 365$  (in other words, 5 divides 365), so  $365 \equiv 0 \pmod{5}$ , so 0 belongs to the residue class of  $365 \pmod{5}$ .

It is the least nonnegative residue because it is the least nonnegative integer with such properties.