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Q(a)

-2002 is divided by 87

$$-2002 = 87(-24) + 86$$

When -2002 is divided by 87
the quotient is -24 \div -2002
div 87, and the remainder
is 86 \div -2002
mod 87

(b) 3 is divided by 5
 $3 = 5\left(\frac{3}{5}\right) + 0$

When 3 is divided by 5
the quotient is $\frac{3}{5} \div 3$
div 5, and the remainder
is 0 \div 3 mod 5