## QUESTION

List those residues mod 15 which are coprime with 15 . Hence write down the value of $\phi(15)$ and check it against the formula obtained in cor.5.4. ANSWER
We must omit all multiples of 3 and 5 , so the remains residues are $1,2,4,7,8,11,13,14$ showing that $\phi(15)=8$. The formula gives $\phi(15)=15\left(1-\frac{1}{3}\right)\left(1-\frac{1}{5}\right)=$ $15\left(\frac{2}{3}\right)\left(\frac{4}{5}\right)=8$, agreeing with our previously obtained value.

