ON THE SUM $\sum_{\alpha=1}^{p-1} \left(\frac{a}{p}\right) a$

Note that this equation also holds for $p \equiv 3 \pmod{8}$ since, in this case, it is also true that

$$\left(\frac{p - a}{p}\right) = -\left(\frac{a}{p}\right) \cdot]$$

Now, from Corollary 2,

and so $S = -p \sum_{\alpha=1}^{(p-1)/2} \left(\frac{a}{p}\right),$ $\sum_{\alpha=1}^{(p-1)/2} \left(\frac{a}{p}\right) \alpha = 0.$

REFEREES Continued from page 2

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