## Answer to Question \#84738 - Math - Algebra

Let us assume that three three consecutive odd integers are $n,(n+2)$ and ( $n+$ 4)

Therefore, the given condition is as follows
$n+(n+2)+(n+4)=(n+4)^{2}-60$
$3 n+6=n^{2}+16+8 n-60$
$n^{2}+16+8 n-60-3 n-6=0$
$n^{2}+5 n-50=0$
$n^{2}+10 n-5 n-50=0$
$n(n+10)-5(n+10)=0$
$(n+10)(n-5)=0$

$$
\Rightarrow n-5=0 \text { or } n+10=0
$$

$\Rightarrow n=5$ or $n=-10$
Hence,
The first integer is 5 .
$\mathrm{n}+2=5+2=7$ : The second integer is 7 .
$\mathrm{n}+4=5+4=9$ : The third integer is 9 .
CHECK:
$5+7+9=(9)^{2}-60$
$21=81-60$
$21=21$

