207-207 697-99+3 73(297-39+1) . Now we shall try to show 3(941)(29+1) 2p(p+1) New way (Deserves a better idea) $a^2=8+3b^2$. By div algo, b can be 8K, 8K+1, ..., 8K+7 for some KeN .b=8K, $8+3b^2=8+192K^2=8(1+24K^2)=8(2(12K^2)+1)$

That divisible by 2 1. 8+95° cort be a perfect squire b=8K+1,8+3b=8+3(8K+1)=8+3(64K2+16K+1)=192K2+48K+8+3

a= 4p, 4p+1, 4p+2 or 4p+3 for some p=N. $a^2 = 16p^2$, $16p^2 + 8p + 1 = 4(4p^2 + 2p) + 1$, $16p^2 + 16p + 4 = 4(4p^2 + 4p + 1)$, $16p^2 + 24p + 9 = 4(4p^2 + 6p + 2) + 1$ is $a^2 + 8 + 3b^2$ for this case

b = 8142 $8+3b^2 = 8+3(64K^2+4+32K) = 8+192K^2+12+96K$ = 4 (48K⁴2K+5) e We shall try to show 48.K72K+5 is not divisible by 4

K=2K, or 2K,+1 for some K, EN. (Divalgo) $K=2K_1$, $48K^2$ $2K+5=192K^2$ $4K_1+5=4(48K^2+K_1+1)+1$ K=2KH1, 48K4 2KH5=48(4K,44KH1)+2(2K,+1)+5 = 4(48KP+ 49K1+13)+3

:. 4/48K3+2K+5) · b= 8K+3 8+3b= 8+3(8K+3)= 8+3(64K+48K+9) = 4(48K4 36K+8)+3

1. 648+312 here