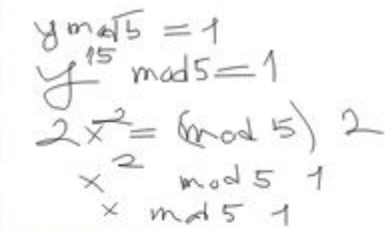
2x^2-1=y^15 докажите, что если x>1, то x кратно 5

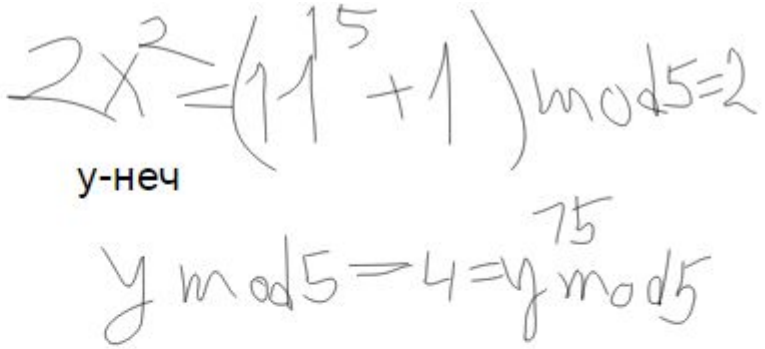
2x^2-1=y^15



x mod 5=0
y mod 5=1

t=1,2,3,4
2*(5k+t)^2=y^15
50k^2+20kt+2t^2=y^15

50k^2+20t+2=y^15 => y^15 mod 5=2
1) ymod(5) = 2 2) ymod(5) = 0,1,4 не подходят
2 4 3 1 2 4 3 1 2 4 3 1 2 4 **3**
3) ymod(5) = 3
3 4 2 1 3 4 2 1 3 4 2 1 3 4 **2**



x mod 5=0
y mod 5=1

2*(25k^2)=(5t+1)^15