8+33= 8+3.16(2KH1)= 8+48(4K4 4KH1) . b= 8K+4 =4(2+48K+48K+12) = 4 (48K²+48K+14) = 4 (48K+40K) 1 17) = 48(24K+24K+7)=8(2(12K+12K+3)+1) 19 not div. by 2 : 8+35° is not a perfect square b=8K+5 8+3b=8+3(8K+5)=8+3(64K+25+80K)=8+192K+75+240K = 4(48K+ 60K+20)+3 8+36= 8+3(8K+6)= 8+3(64K+36+96K)=192K+288K+116 b=8K+6 = 4(48K472K+29) =4(2(24K736K+14)+1) :. 8131 is not a perfect square 4 not div. by 4 b=8KH7 8+3b= 8+3(8K+7)=8+3(64K+49+112K)=8+192K+147+ = \$4(48K4 84K+38)+13 :. 8+36° is not a perfect square :. 8+96 is not a perfect square in any case Prob 41: If P, 4p41, 6p41 are prime numbers, find P. · by division algorithm and · p is a prime, p can be 10K+1, 10K+3, 10K+7, P=10K+1 4P=1=4(10K+1)=1=400K=80K+5=5(80K=16K+1) · P=10K+3 6p21=6(10K+3)2+1=600K2+360K+55=5(120K2+72K+11) P=10K+7 6p71=6(10K+7)2+1=600K2 840K+50=010(60K284K+5) That prima