-->disp( 'solving for the congruence equation 8x @ 12(mod28),where @ is the sign for congruence') solving for the congruence equation 8x @ 12(mod28),where @ is the sign for congruence

-->a =8;

-->b =12;

-->m =28;

-->V= int32([a,m]);

-->d= gcd(V);

-->a1= a/d;

-->b1= b/d;

-->m1= m/d;

-->function yd=f(x)

-->yd=(a1\*x)-b1

-->endfunction

-->disp ('k is the unique solution of the equation')

k is the unique solution of the equation

-->for i=0:m1

-->x=i;

-->p=f(x);

-->if(modulo(p,m1)==0)

-->k=x

-->break ;

-->end

-->end

k =

5

-->s1=k;

-->s2=k+m1;

-->s3=k+(m1 \*2) ;

-->s4=k+(m1 \*3) ;

-->disp('solutions of the original equation at d=4')

solutions of the original equation at d=4

-->disp (s1)

5

-->disp (s2)

12

-->disp (s3)

19

-->disp (s4)

26