Question 3c:

```
> d := 1000;
  p := prevprime(2^30);
  for i to 7 do
     A := Randpoly(d,x) mod p;
     B := Randpoly(d,x) mod p;
      st := time();
     G := Gcd(A,B) mod p;
      tt := time()-st;
     printf("deg=%d G=%a time=%7.3fsecs \n",d,G,tt);
      d := 2*d;
  od:
Typesetting:-mprintslash([(d := 1000)],[1000])
Typesetting:-mprintslash([(p := 1073741789)],[1073741789])
deg=1000 G=1 time=  0.022secs
deg=2000 G=1 time=  0.045secs
deg=4000 G=1 time=  0.107secs
deg=8000 G=1 time=  0.444secs
deg=16000 G=1 time=  1.754secs
deg=32000 G=1 time=  6.771secs
deg=64000 G=1 time= 27.183secs
```