```
## Week 2 pt 2 ##
 Issues
 1) Greatest common divisors might not be unique
  2) Greatest common divisors might not chist
FALT: In a Enclidear domain
  · greatist common division almoss exist (can be computed with division algorithm
  · there are unique "up to unil"
          It I was d' am yed's for som element,
              the diud for some unit weR
    In 7 , uniti: 11
         the me can just choose the positive one
               => they ged (a,b)
     In F[x] milli f(x)= co coef / 20 }
          - t choose the get so the top-day well is !
               gaixer criter + -- . C. " monic beganowial
  Dack b al
             f(x)=x6+32) +5x+12x+5 y(x)=2x3+2x+1
            f(x)= (x) y(x) 1 3x2+3
          => gd(f,g)=qd(q,,r,)
       the divide 9 by r.
                                   7110+7x
              => a ged of fig ",
                             L(W = 34,13
                 => the ged (5,91=x2+1
```

f(x)=x + 1 x + 5 x + 5 x + 5 x + 5 x + 5 (x + 1) (x + 2) x (x + 3)

dal: 54,14,1711 = (541) (5-11)