```
# Chuong trinh: da thuc bac 3 (Pp.Horner)
# f(1)= -4; f(-2)= 2
#---------------------------------
            .include   "macro.mac"
# Data segment
     .data
# Cac dinh nghia bien
int_a:      .word      1
int_b:      .word      2
int_c:      .word      3
int_d:      .word      4
int_x:      .word      15
int_f:      .word      16
# Cac cau nhac nhap du lieu
nhap_x:   .asciiz    "Nhap x: "
xuat_s1:  .asciiz    "f("
xuat_s2:  .asciiz    ")= "
#---------------------------------
# Code segment
     .text
#---------------------------------
# Chuong trinh chinh
#---------------------------------
main:
#Nhap (syscall)
  # Nhap x
     geti_p     nhap_x,int_x
#Xu ly
  # t0=a/f, t1=x, t2=b/c/d
     lw   $t0,int_a
     lw   $t1,int_x
  # f=a.x
     mul  $t0,$t0,$t1
  # f=a.x+b              [f=f+b]
     lw   $t2,int_b
     add  $t0,$t0,$t2
  # f=(a.x+b).x          [f=f.x]
     mul  $t0,$t0,$t1
  # f=(a.x+b).x-c        [f=f-c]
     lw   $t2,int_c
     sub  $t0,$t0,$t2
  # f=((a.x+b).x-c).x    [f=f.x]
     mul  $t0,$t0,$t1
  # f=((a.x+b).x-c).x-d  [f=f-d]
     lw   $t2,int_d
     sub  $t0,$t0,$t2
     sw   $t0,int_f
#Xuat ket qua (syscall)
     puti_p     xuat_s1,int_x
     puti_p     xuat_s2,int_f
#ket thuc chuong trinh (syscall)
Kthuc:    addi $v0,$zero,10
     syscall
#---------------------------------
```