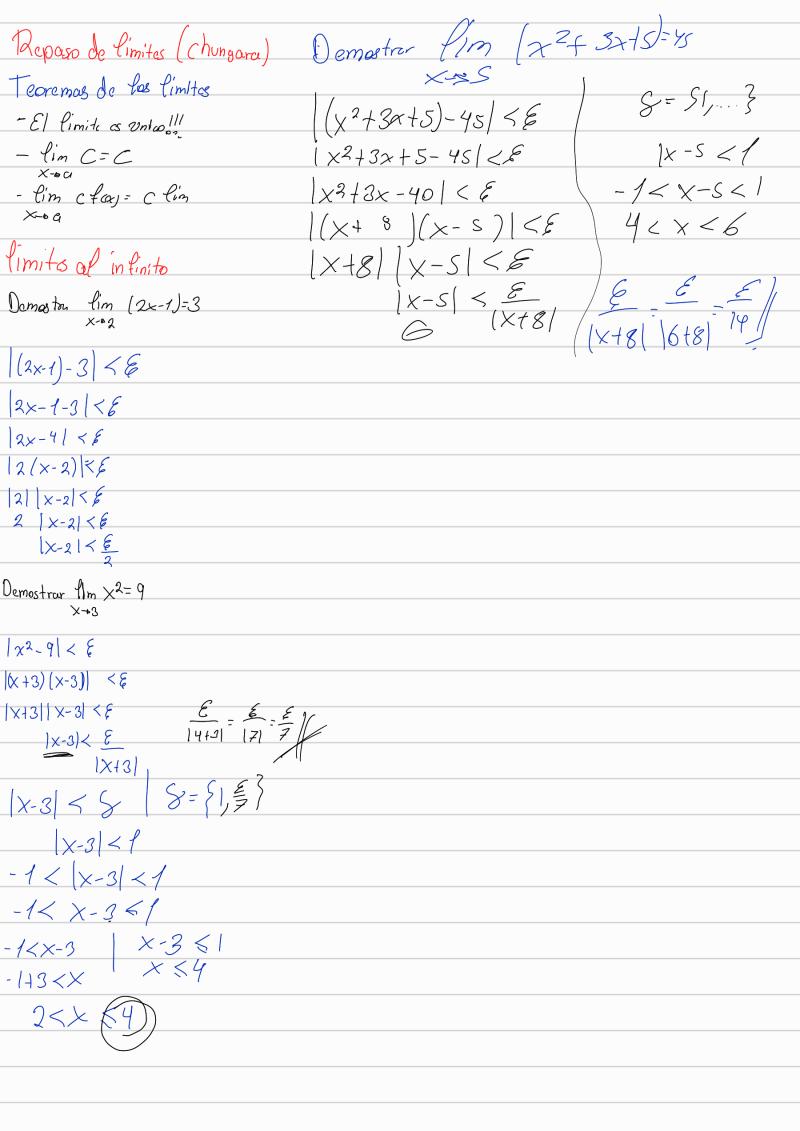
Mus Exection !! F(x) = 9(x) · h(x) + h(x) · 9'(x) Demostar lim (1-5x)=6 (1-5(-1):66 $F'_{Cx3} = (3x^4)(2x^5)$ $f'_{(x)} = (3x^{4}) (10x^{4}) + (2x^{5}) (12x^{3})$ F(x) = 30 x8 + 24 x8 Exo=> S= 20:xERno</x-(-1)/58=5 1(1-5x)-6/< & (1-5x)-6/< & F(x) = 54 x8 (-5-5x)1-5x-6/<E $-5 \times^{2} y - 3 \times -6 \times^{2} = 3 \times$ 1-5-5×1< E -5 x2. 1 y + y. (-10 x) -3y - 12 yy = 3 1-5(1+X)/<E [-5(x+1)]<& $-5x^2y^1-3y^1-12yy^2=3+10xy$ 1-51 |x+11<6 1-5/11+X/<& 5 (x+11< & y' (-5x2-)-12y) = 3 +10 xy 5 X111< E $\backslash \times +1)$ Reposo de limito (FRANCI 11) (x-(-1)) < <u>E</u> lim (mx+b)=ma+b f(x)= |x| > Demostrer lim 1×1=0 E>0=>8= >0:xERnodx-a1<8=> E>0: 38:=80/x6R10<|x-0|<& / (mxtb)-(matb) / < & 1x-0/<5 (1×1-0/28) mx-mal<& |m(x-a)|< & /m//x-a/<& /ice" Demostrar m /x-a/<& |m/|x-a| < E (im (2x+1)=3 Xol $|x-\alpha| < \frac{\varepsilon}{m}$ $|x-\alpha| < \frac{\varepsilon}{\varepsilon}$ 90111 6 x0 => 8 = E>0/ XEBn 01x-11<8=> Demostrer Pim x2=1 (2x+1)-3 < E E>0=> S= >0. XEIR no(x-1 <8=> |(2x-2)| < 61x2-1/< E 12 (x-1)1< F (x-1) (x+1) / E 21 X-11< 8 1x-11 < \(\xi \) 1x-11 | x+1/ < E



```
2 Sea 5=1R-{-13 Consideramos a la siguiente operacion en R
Demostral que * & one operación binaria en S y que (S, *) & un grupo abaliano
Clausura
\forall a,b \in S : a \land b \neq -1 = ) a * b = a + b + a b
                         => a+b+ab = -1
                         oo axbes (V)
@ Asociatividad
\forall a_1b_1c \in S \land \neq -4:(\alpha*b)*c=\alpha*(b*c)
      (a*b) *c = a*(b*c)
   (atbtob) *c = a *(b+c+bc)
 (a 15+ ab) + c + (a+6+ab) · c = a + (b+c +bc) + a · (b+c +bc)
 alblub +c+ac+bc+abc = a + b +c+bc + ab + uc + abc (V)
1.672 × 10-27
 9.109 x 10-32
```