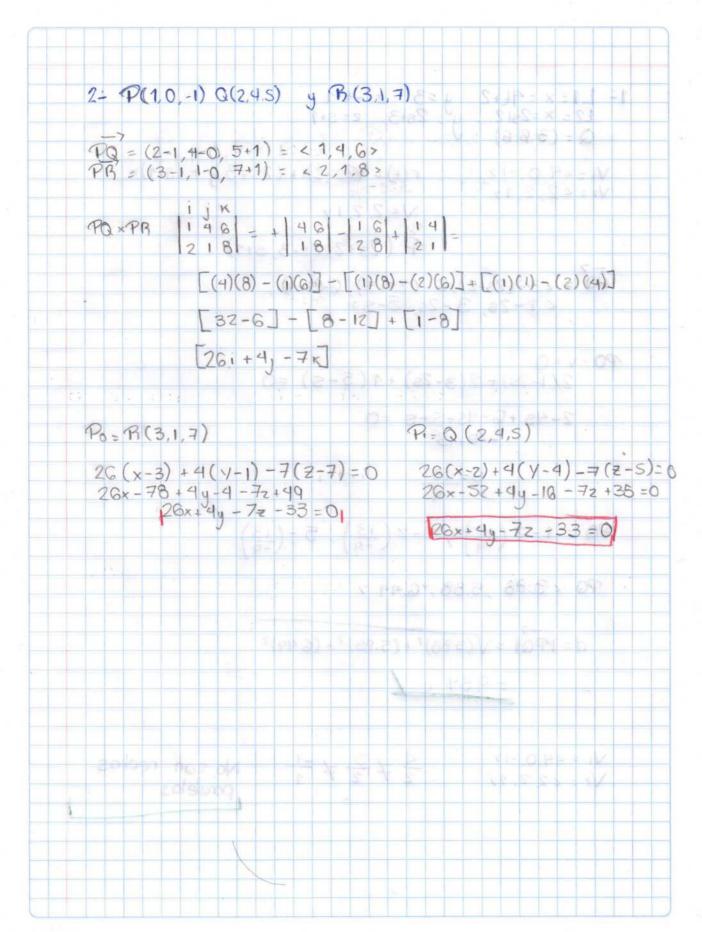
```
1- L1 = x = 4L+2 y = 3 z = -4+1 (2+5)0 (1-01) 4-5

L2 = x = 2s+2 y = 2s+3 z = s+1

Q = (3.6,6)
                           r(+) = (2s+2)+ (2s+3), + (s+1)+
  VI= <4,0,-17
  V2 = < 2, 2, 17
                         V < 2, 2, 17
                                                              AT . M
                        P (2s+2,2s+3,5+1)
 PQ = 23 - (2s+2), 6 - (2s+3), 6 - (s+1) - 6 (4)
< 1 - 2s, 3 - 2s, 5 - 57
PQ . V = 0
       2(1-2s) + 2(3-2s) + 1(5-s) = 0
      2-45+6-45+5-5 =0
               -95+13
5= 13
                                0-1-
 PQ = 1 - 2 \begin{pmatrix} 13 \\ -9 \end{pmatrix}, 3 - 2 \begin{pmatrix} 13 \\ -9 \end{pmatrix}, 5 - \begin{pmatrix} 13 \\ -9 \end{pmatrix}
   PQ < 3.88 , 5.88 , 6.44 7
     d=1PQ1 = V(3.88)2+(5.88)2+(644)2
               = 9.54 0/
  VI = 44,0,-17
                           4 7 0 7 -1
                                                  No son rectos
   V2 = 622,17
                                                   paralelas
```



3- (toost): + (toost) + (21/2 +3/2) K += Ø TI 0 = A - P  $\frac{d}{dt}(t\cos t) = \frac{d}{dt}[t] \cdot \cos(t) + t \cdot \frac{d}{dt}[\cos(t)]$ = 1cos (+) ++ (-sen+) = cos t-tsent d(tsent) = d[t].sent + t. d[sent] sent + + cost d (2/2 +3/2) = 3 (2/2 + 1/2) | 5/2 +1/2 = 1/2 +1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1/2 | 1/2 = 1 ('(+)= (cost-tsen t)+ (sen t + t cost) + (121+)  $(0.82, 3.1916, 2.50) = \sqrt{(0.82)^2 + (-3.19)^2 + (2.50)^2} = 4.135$ velocidad ... r''(t) = -sent - (sent + t cos t) + cos t + (cos t - t sen t) + 2 t/e = 1/2 (-2sent - t cos t) + 2cos t - t sen t) + 1/24-3 24, 1.82, 0.39897 aceleración Velocidad 4 0.82, 3.1916, 2.507 Propidez 4,135 Aceleración < -3.24, 1.82, 0.3989

$$G^{2} V = 16 \qquad R = 400 \Omega \qquad dy = -0.01 = \frac{\Omega}{9} = 0.03 = \frac{\Omega}{9}$$

$$\frac{d1}{d1} = \frac{1}{12} \qquad \frac{d1}{d1} = \frac{V}{67}$$

$$\frac{dV}{d1} = \frac{d1}{12} = \frac{V}{67} = \frac{1}{12}$$

$$\frac{dV}{67} = \frac{1}{12} = \frac{1}{12} = \frac{V}{67} = \frac{1}{12} = \frac{1$$

8- Determine los extremos 
$$F(x,y) = y^2 - 4x$$
 sujetos  $x^2 + y^2 = q$ 
 $f(x,y) = y^2 - 4x$ 
 $f(x,y) = y^2 - 4x + h(x^2 + y^2 - q)$ 

2-  $f(x,y,h) = y^2 - 4x + h(x^2 + y^2 - q)$ 

2-  $f(x,y,h) = y^2 - 4x + h(x^2 + y^2 - q)$ 

2-  $f(x,y,h) = y^2 - 4x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 - 4x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 - 4x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 - 4x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) = y^2 + 2x + h(x^2 + y^2 - q)$ 

3-  $f(x,y,h) =$