$^2)/(1-$
$()^2), 3. * 2 * ()/(1-()^2)); [magenta, samples =$
$50, domain =$
$-0.74 :$
$0.74]plot(4. * (-1-()^2)/(1-()^2), 3. * (-2) * ()/(1-()^2)); (F1)node[left]$
$_1d_1Qd_2F_2$
$|d_1-$
$d_2| =$
Q
V_1
V_2
F_1
F_2
I
$F_1F_2 =$
$2c$
$[F_1F_2]$
V_1
V_2
$V_1V_2 =$
$2a$
$[F_1F_2]$
(H)
$I(h,k)$
$V_1(h-$
$a,k)$
$V_2(h+$
$a,k)$
$F_1(h-$
$c,k)$
$F_2(h+$
$c,k)$
$(H) : (x-h)^2a^2-(y-k)^2b^2 = 1\ b^2 = c^2-a^2$
(1)
$x-ha-$
$y-kb =$
0
$x-ha+$
$y-kb =$
0
$x'x$
$y'y$
a
c
I
F_1
F_2
V_1
V_2
Q
h
k
$I(0,0)$
$V_2(4,0)$
$F_2(5,0)$
$I(0,0)$
$h =$
0
$k =$
0
$a =$
$IV_2 =$
$\sqrt{(4-0)^2+(0-0)^2} =$
4
$c =$
$IF_2 =$
$\sqrt{(5-0)^2+(0-0)^2} =$
5
$b =$
$\sqrt{c^2-a^2} =$
$\sqrt{5^2-4^2} =$
3
0
$(x-h)^2a^2-$
$(y-k)^2b^2 =$
1
$(x-0)^24^2-$
$(y-0)^23^2 =$
$1(1,2)$
$(4,2)$
$(-4,2)$
$(1,2)$
$h =$
1
$k =$
2
$a =$
$\sqrt{(4-1)^2+(2-2)^2} =$