J. Find the facing the hyperbola
$$\mathcal{L} \times \frac{2}{9} - \frac{9^2}{4} - 1 = 0$$

$$\frac{\chi^2}{a^2} - \frac{9^2}{b^2} = Li \cdot \frac{c^2 - a^2 - b^2}{c = \pm \sqrt{a^2 + b^2}} \qquad \frac{\chi^2}{a^2} + \frac{9^2}{b^2} = 1$$

$$c = \pm \sqrt{a^2 + b^2}$$

$$2^2 - \frac{c^2 - b^2}{b^2}$$

$$F(\sqrt{02-b^2}, 0), F'(-\sqrt{02-b^2}, 0)$$

$$b=2 \qquad F(\sqrt{03}, 0) \quad F'(-\sqrt{03}, 0)$$

2. Find the of the triangle determined by the asymptotes of the hyperbolo H: x2 - y2 - 1 and the line

$$\lambda = \frac{6}{2}$$

$$\lambda = \frac{15}{2} \Rightarrow A\left(\frac{6}{2}, \frac{12}{2}\right)$$

$$\frac{2}{27} - 4^{2} = 1, \quad c^{2} = 2^{2} = 5^{2} \quad 3 = 1 + (-\sqrt{67} + 5^{2}, 5)$$

$$c = \pm \sqrt{67} + 5^{2} = 5^{2} \quad 3 = 1 + (-\sqrt{67} + 5^{2}, 5)$$

of the ellipse E: 3K2+25y2=225 3. Det the cond of the face 77 + 42 = 1 = 10 = 2 t= (4,0) F1(-4,0) 4. Final the intersection points between the line: d: X+24-7=0 ellipse 8: x+5y2-25=0 (X+2y #45)x=4-2y (x2+by2=25=2x=4-24 =>462187+5000 D= 784-642200 = 454 7345 = 78+402 = 14+202 Jz = 14-504 112-25+124 K7 = - 71 - 4 TY 3 H(-517 MA 114 +50A) B(-21-454,14-254) 5. Find the eg of the tongent lines to be hiperbook History? 4-4= m(x-xs) 972-24m(x-1) 2) 72x3-345=12 2×5-3(-2+m(x-1)) = 0 2×5-3(52-10 m(x-T)+(x-1)5 ms)=0 2 Kz + 2 + POW(Y-5+3M3 (X-1) = 0 5x2-\$5+50 mk-50 m = 3m2(x3Bm2(x-1)?= =) X3(2-3m2)+X(30m)+6m3x)-42-30m-3m2=0 D=(30m + 6m2)- ((5-3m2)(-45-30m-3m2)=0 D= 800 m2 +36 m4+36 m2-4(-345-150 m-15 m2+ + 55 W12 + 80 3 m + 5 m 0=36 m to + 360 m b + 1500

Y =-X+m X5 th(-X+W)5- 50=0 8+12-3×4+12-5050 2x-8xn+12-5050 D= (6m2-5(4m2-20) P,= 3 = (QW, - Jonstroo = -4 Wstroo -4 m2+ 10000 知こもら A = - KF2 4. Flood the eg of the pero focus and the direct line of the parabote P:42-24 x=0 9 = 2px id: x=-2, p(p,0) y 2-24×20 pzyz d:x=-6 F(6,0) M=54x23 b=15 F(-4,0) | X=4 8. Find the eg of the pordsole having the pains F(-4,0) and the direct line x- 4=0 F (-4,0) JM, F)= JM, d) & J(X+4)2+48=(X+)(); X-4-0 X2+14x+48+42=x214x+63 58X+ 250 9. Final the eg of the tangent are to the perchale P: y'-1k= o parolle to J: 2x+2y-3= 0 Dy: K+ Y+ y=0 13 +8 × +8 × =0 4 x+y+1-0 h=1 x=-4= D= 64-321 64-32/=0=5/=L