1)
$$\ell = 4$$
; $\ell = 3$. $\ell = 2 - a^2$
 $\ell = 6 - 9$
 $\ell = 4$

H:
$$-\frac{(x+5)^2}{7} + \frac{(y-1)^2}{9} = 1$$

2)
$$4(x^{2}+6x)-9(y^{2}+2y)=9$$

 $4(x^{2}+6x+9)-9(y^{2}+2y+1)=9+36-9$
 $4(x+3)^{2}-9(y+1)^{2}=36$
 $\frac{(x+3)^{2}}{9}-\frac{(y+1)^{2}}{4}=1 \longrightarrow (y+1)=1$
 $as: (y+1)=\pm\frac{2}{3}(x+3) \longrightarrow y=\pm\frac{2}{3}x\pm2-1 \longrightarrow (y+1)=\pm\frac{2}{3}x\pm1-1 \longrightarrow (y+1)=\pm$

3)
$$8.(-4)^{2}-y^{2}+16=0 \rightarrow 144=y^{2} \rightarrow y=\pm 12 \rightarrow H: \frac{8x^{2}}{-16}+\frac{y^{2}}{16}=1 \rightarrow -\frac{x^{2}}{2}+\frac{y^{2}}{16}=1$$

$$T[-4;12]: \pm : -\frac{x\cdot(-4)}{2}+\frac{12y}{16}=1 \rightarrow 2x+\frac{3}{4}y-1=0$$

$$T[-4;-12] \pm : -\frac{x\cdot(-4)}{2}+\frac{y\cdot(-12)}{16}=1 \rightarrow 2x-\frac{3}{4}y-1=0$$