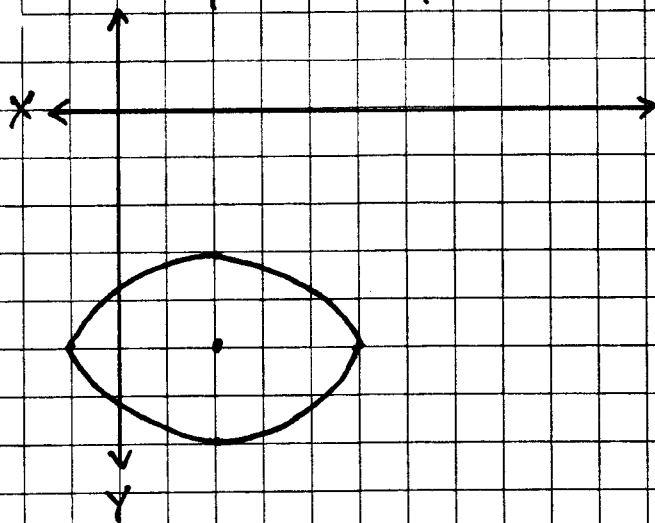


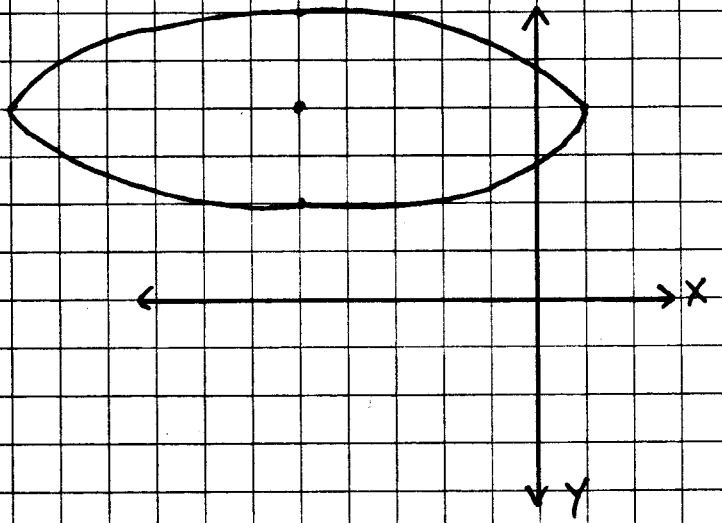
ELLIPSES

1. $\frac{(x-2)^2}{9} + \frac{(y+5)^2}{4} = 1$



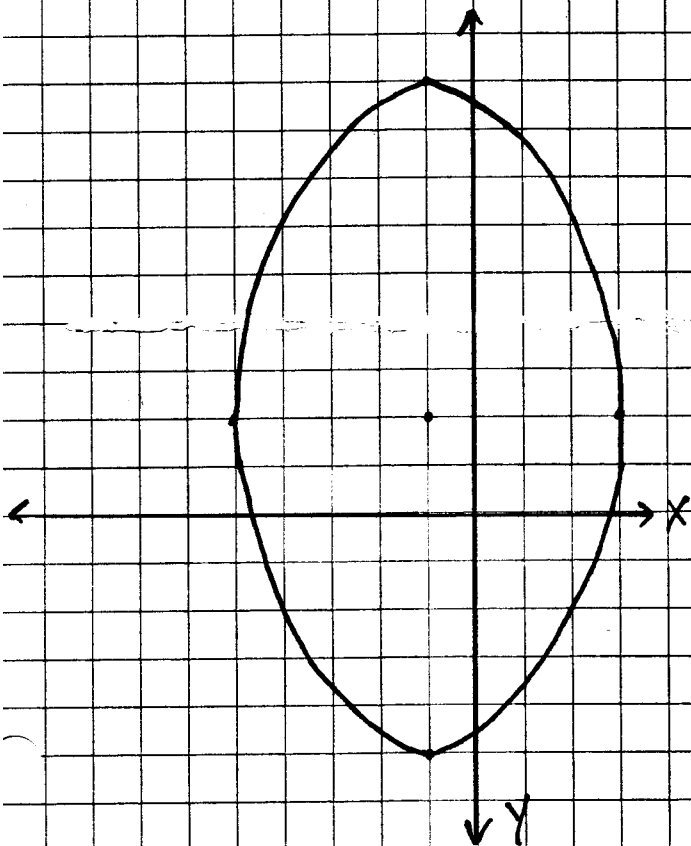
Foci $(2 - \sqrt{5}, -5)$ $(2 + \sqrt{5}, -5)$

2. $\frac{(x+5)^2}{36} + \frac{(y-4)^2}{4} = 1$



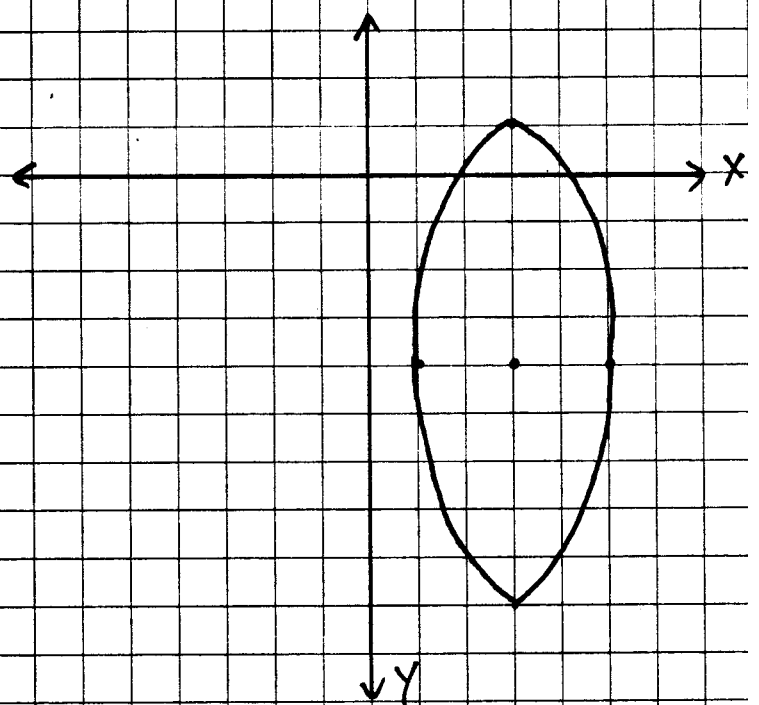
Foci $(-5 - 4\sqrt{2}, 4)$ $(-5 + 4\sqrt{2}, 4)$

3. $\frac{(x+1)^2}{16} + \frac{(y-2)^2}{49} = 1$



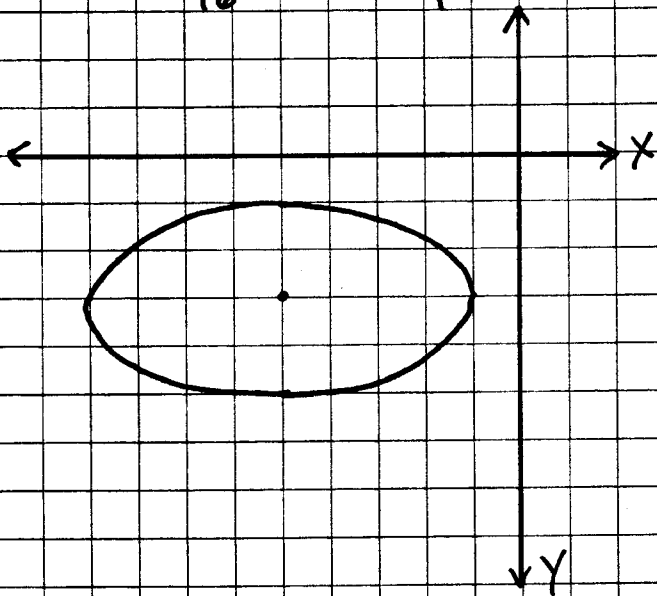
Foci $(-1, 2 - \sqrt{33})$ $(-1, 2 + \sqrt{33})$

4. $\frac{(x-3)^2}{4} + \frac{(y+4)^2}{25} = 1$



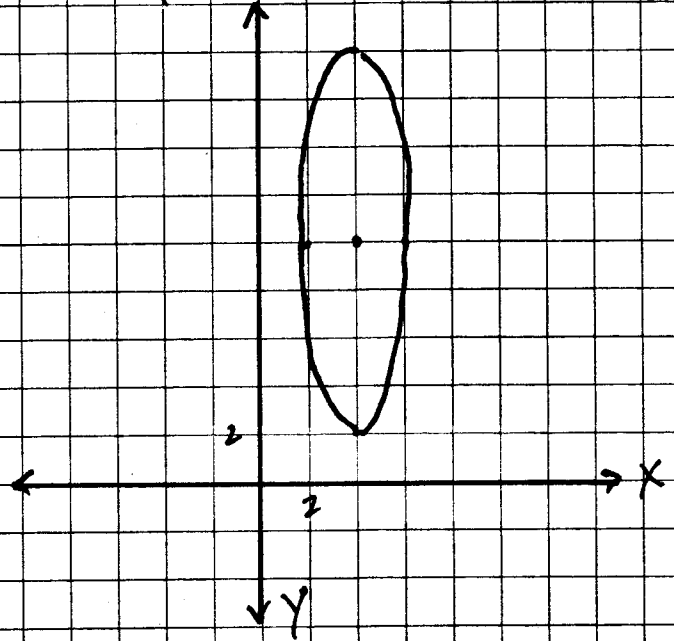
Foci $(3, -4 - \sqrt{21})$ $(3, -4 + \sqrt{21})$

$$5. \frac{(x+5)^2}{16} + \frac{(y+3)^2}{4} = 1$$



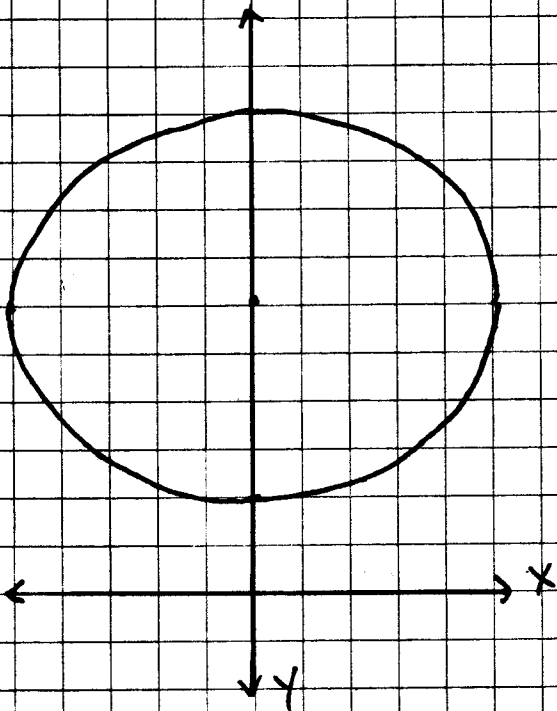
Foci $(-5-2\sqrt{3}, -3)$ $(-5+2\sqrt{3}, -3)$

$$6. \frac{(x-4)^2}{4} + \frac{(y-10)^2}{64} = 1$$



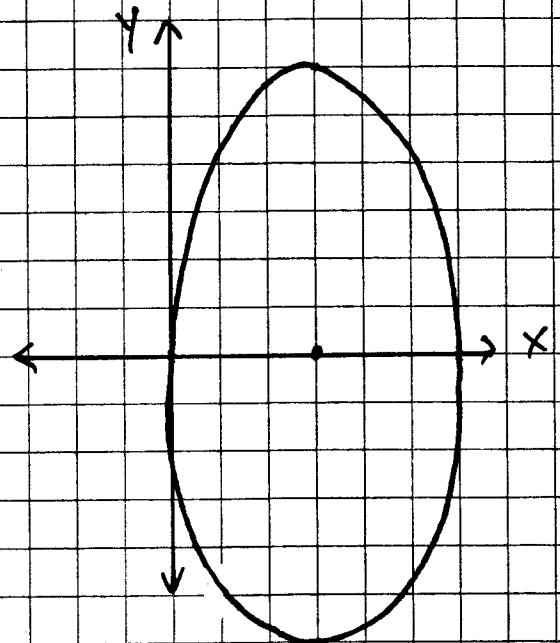
Foci $(4, 10-2\sqrt{15})$ $(4, 10+2\sqrt{15})$

$$7. \frac{x^2}{25} + \frac{(y-6)^2}{16} = 1$$



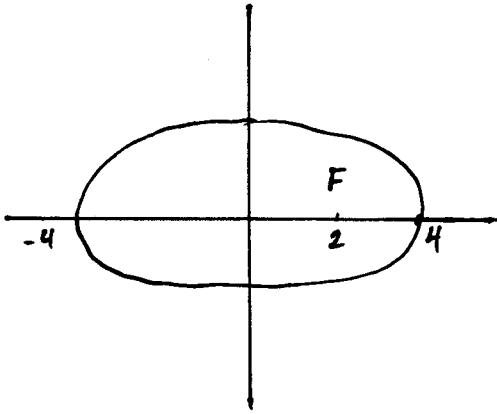
Foci $(3, 6)$ $(-3, 6)$

$$8. \frac{(x-3)^2}{9} + \frac{y^2}{36} = 1$$



Foci $(3, -3\sqrt{3})$ $(3, 3\sqrt{3})$

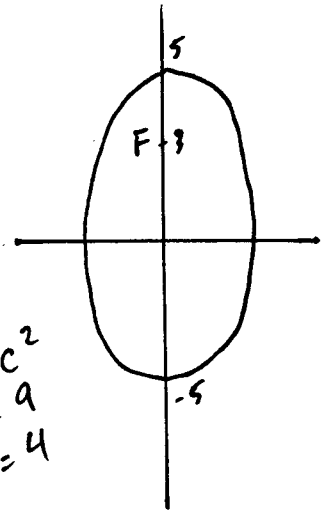
9.



$$\frac{x^2}{16} + \frac{y^2}{12} = 1$$

$$\begin{aligned} a^2 - b^2 &= c^2 \\ 16 - b^2 &= 4 \\ b^2 &= 12 \end{aligned}$$

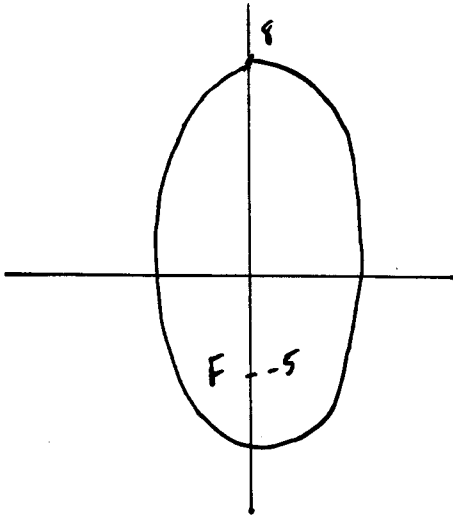
10.



$$\frac{x^2}{4} + \frac{y^2}{25} = 1$$

$$\begin{aligned} a^2 - b^2 &= c^2 \\ 25 - b^2 &= 4 \\ b^2 &= 4 \end{aligned}$$

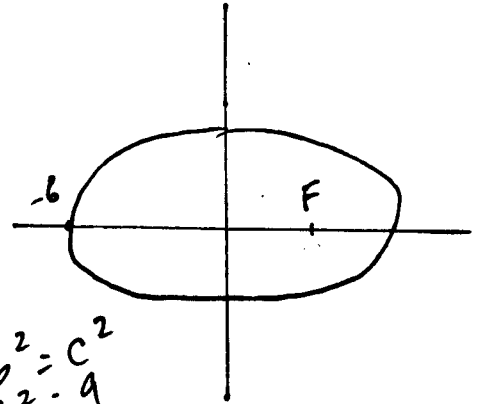
11.



$$\frac{x^2}{39} + \frac{y^2}{64} = 1$$

$$\begin{aligned} a^2 - b^2 &= c^2 \\ 64 - b^2 &= 25 \\ b^2 &= 39 \end{aligned}$$

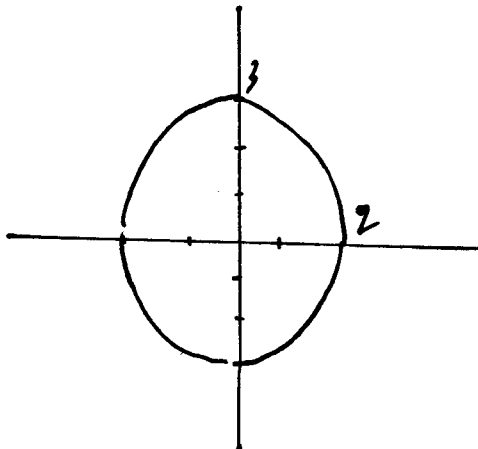
12.



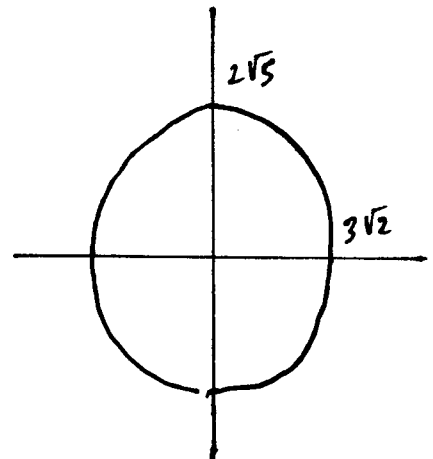
$$\frac{x^2}{36} + \frac{y^2}{27} = 1$$

$$\begin{aligned} a^2 - b^2 &= c^2 \\ 36 - b^2 &= 9 \\ b^2 &= 27 \end{aligned}$$

13.



$$\frac{x^2}{4} + \frac{y^2}{9} = 1$$



$$\frac{x^2}{18} + \frac{y^2}{20} = 1$$