Algebra 2
Chapter 11 Review Sheet

Name: _____
Date: _____ Block: _____

For questions 1 – 3, use the points (–3, 2) and (5, –4).

1. Find the distance between the points.

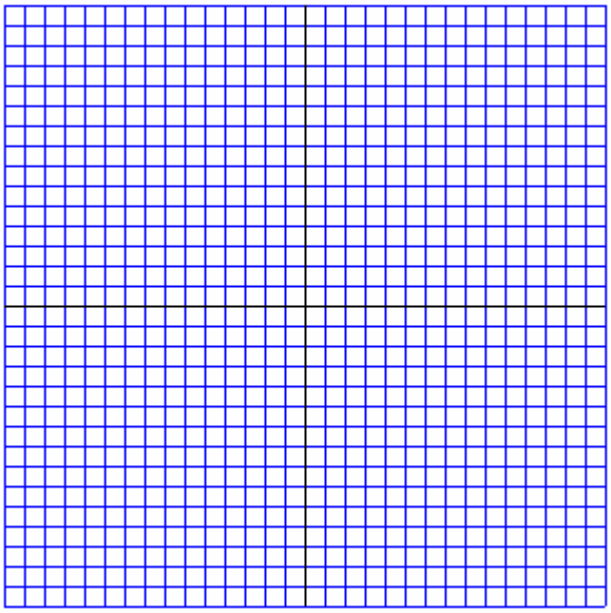
2. Write the equation of the line that goes through the point (4, 6) and is parallel to the line through the given points.

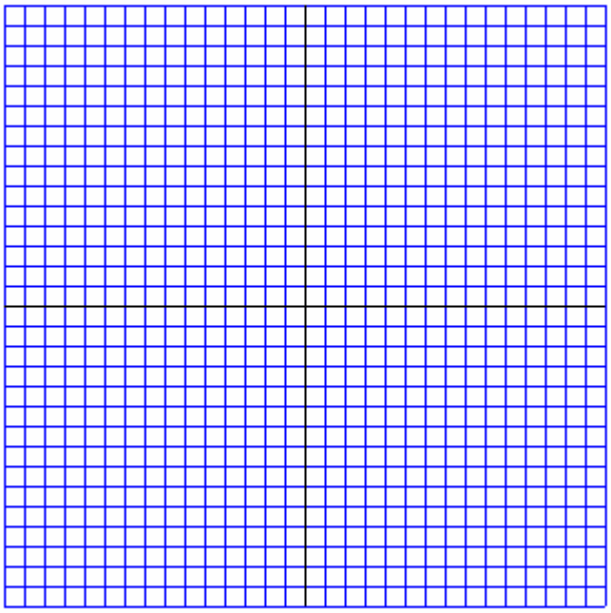
3. Write the equation of the line that is the perpendicular bisector of the segment connecting the two points.

For questions 4 – 6, graph each equation. Find the foci where appropriate.

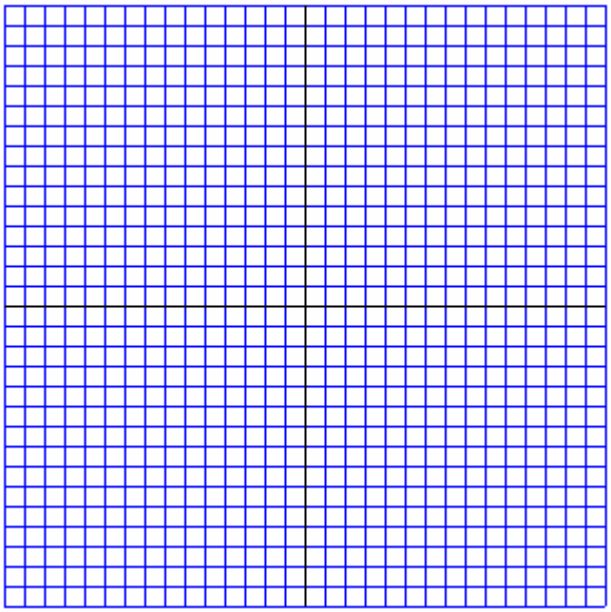
4. $(x-2)^2+(y+1)^2=16$

5. $\frac{(y+3)^2}{16}+\frac{(x-4)^2}{25}=1$





6. $\frac{(y-2)^2}{25} - \frac{(x-4)^2}{144} = 1$



For questions 7 – 10, use the information provided to write the equation of the given figure.

7. Write the equation of a circle with center (–3, 4) and radius = 8.

8. Write the equation of the ellipse with center at (2, 3) and one vertex at (2, 10) and one focus at (2, 6).

9. Write the equation of the hyperbola with foci at (–7, 2) and (4, 2) and vertices at (–4, 2) and (1, 2).

10. Write the equation of the asymptotes for the hyperbola in question 9.