

Introduction to Conics Graphing from Description

Graph the following: (Two graphs per side; include descriptions on the graph paper)

1. An ellipse with center at $(4,8)$, x-radius of 3, y-radius of 7
2. An ellipse with center at $(3,-5)$, x-radius of 3, y-radius of 4
3. A circle with center at $(-5,2)$, radius of 7
4. An ellipse with center at $(-2,-6)$, x-radius of 10, y-radius of 5
5. A parabola with vertex at $(-5,4)$ and focus at $(-5,6)$
6. A parabola with vertex at $(-5,4)$ and focus at $(-4,4)$
7. A parabola with vertex at the origin and focus at $(-3,0)$
8. A parabola with vertex at $(7,0)$ and focus at $(6\frac{1}{2}, 0)$
9. A hyperbola opening horizontally with center at $(0,2)$, x-radius of 3, y-radius of 6.
10. A hyperbola opening horizontally with center at $(0,2)$, x-radius of 6, y-radius of 3.
11. A hyperbola opening vertically with center at $(0,2)$, x-radius of 3, y-radius of 6
12. A hyperbola opening vertically with center at $(0,2)$, x-radius of 6, y-radius of 3.
13. An ellipse with center at $(-4,0)$, x-radius of 10, y-radius of 9.
14. An ellipse with center at $(2,-1)$, x-radius of 3, y-radius of 12
15. A parabola with vertex at $(4,3)$ and focus at $(5\frac{1}{2},3)$.
16. A parabola with vertex at $(2,-3)$ and focus at $(-4,-3)$.
17. A hyperbola opening horizontally with center at $(-4,5)$, x-radius of 2, y-radius of 2
18. A hyperbola opening vertically with center at $(1,3)$, x-radius of 2, y-radius of 7