

10-4A Practice
Ellipses

Form G

Write an equation of an ellipse in standard form with center at the origin and with the given vertex and co-vertex listed respectively.

1. $(6, 0), (0, -5)$

2. $(0, 10), (-7, 0)$

3. $(0, 2), (-1, 0)$

4. $(4, 0), (0, 2)$

5. $(9, 0), (0, -6)$

6. $(11, 0), (0, -10)$

7. $(-7, 0), (0, -5)$

8. $(-2, 0), (0, -1)$

Find the foci for each equation of an ellipse. Then graph the ellipse.

9. $\frac{x^2}{36} + \frac{y^2}{81} = 1$

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

11. $\frac{x^2}{9} + \frac{y^2}{100} = 1$

12. $16x^2 + 25y^2 = 1600$

13. $4x^2 + y^2 = 49$

14. $\frac{x^2}{64} + \frac{y^2}{144} = 1$