

Exercises 1-4: Find the Vertices and the Foci

1. $\frac{x^2}{25} + \frac{y^2}{16} = 1$

2. $4x^2 + 25y^2 = 1$

3. $4x^2 + 9y^2 - 32x - 36y + 64 = 0$

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

Exercises 5-6: Given the Vertices and Co-Vertices of an Ellipse, Write the equation in Standard Form.

5. V(-7, 1), (3, 1); M(-2, 3), (-2, 1)

6. V(1, 2), (1, -6); M(-1, -2), (3, -2)

Exercises 7-8: Given the Vertices and Foci of an Ellipse, Write the equation in Standard Form.

7. V(8, 3), (-4, 3); F(6, 3)

8. V(4, 0), (-2, 0); F(3, 0), (-1, 0)