

WS 9.2 Answer Key

1. Center: (5, 1); Vertices: (5, 6), (5, -4); Co-Vertices: (6, 1), (4, 1); Foci: $(5, 1 \pm 2\sqrt{6})$
2. Center (3, -1); Vertices: (-1, -1), (7, -1); Co-Vertices: (3, 1), (3, -3); Foci: $(3 \pm 2\sqrt{3}, -1)$
3. Center: (0, -2); Vertices: (7, -2), (-7, -2); Co-Vertices: (0, -7), (0, 3); Foci: $(\pm 2\sqrt{6}, -2)$
4. Center: (1, -2); Vertices: (1, 3), (1, -7); Co-Vertices: (4, -2), (-2, -2); Foci: (1, 2), (1, -6)

5.
$$\frac{(x-3)^2}{64} + \frac{(y-8)^2}{121} = 1$$

6.
$$\frac{(x-1)^2}{100} + \frac{(y+4)^2}{9} = 1$$

7.
$$\frac{(x+3)^2}{25} + \frac{(y-7)^2}{9} = 1$$

8.
$$\frac{(x+6)^2}{25} + \frac{(y-10)^2}{169} = 1$$