

## CW 9.2 ANSWER KEY

1. Center  $(-2, 0)$   
Vertices  $(-2, 7), (-2, -7)$   
Co-Vertices  $(-5, 0), (1, 0)$   
Foci:  $(-2, \pm 2\sqrt{10})$

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

3. Center  $(7, -2)$   
Vertices  $(1, -2), (13, -2)$   
Co-Vertices  $(7, 0), (7, -4)$   
Foci  $(7 \pm 4\sqrt{2}, -2)$

4. Center  $(-7, -1)$   
Vertices  $(-7, 2), (-7, -4)$   
Co-Vertices  $(-6, -1), (-8, -1)$   
Foci  $(-7, -1 \pm 2\sqrt{2})$

5. 
$$\frac{(x-3)^2}{100} + \frac{(y+3)^2}{36} = 1$$

6. 
$$\frac{(x-4)^2}{16} + \frac{(y+3)^2}{36} = 1$$

7. 
$$\frac{(x+6)^2}{49} + \frac{(y-2)^2}{4} = 1$$

8. 
$$\frac{(x-4)^2}{9} + \frac{(y-1)^2}{25} = 1$$