

**Write an equation for an ellipse with the given set of characteristics.**

1. Vertices:  $(-7, -3); (13, -3)$       Foci:  $(-5, -3); (11, -3)$

2. Vertices:  $(7, 2); (-3, 2)$       Foci:  $(6, 2); (-2, 2)$

3. Foci:  $(-6, 9); (-6, 3)$       The length of the major axis is 20.

4. Foci:  $(-10, 8); (14, 8)$       The length of the major axis is 30.

**Write an equation for an ellipse with the given set of characteristics.**

5. Vertices:  $(9, -3); (-3, -3)$       Foci:  $(7, -3); (-1, -3)$

6. Foci:  $(3, 1); (3, 7)$       The length of the minor axis is 8

7. Vertices:  $(7, -3); (3, -3)$       Foci:  $(6, -3); (4, -3)$

8. Foci:  $(1, 2); (9, 2)$       The length of the minor axis is 6.