

**Graphing and Properties of Ellipses**

Identify the center, vertices, co-vertices, foci, length of the major axis, and length of the minor axis of each.

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

21.  $\frac{x^2}{36} + \frac{y^2}{25} = 1$

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

22.  $\frac{x^2}{144} + \frac{y^2}{100} = 1$

13.  $\frac{x^2}{49} + \frac{(y+3)^2}{9} = 1$

23.  $\frac{(x+2)^2}{25} + \frac{(y-3)^2}{16} = 1$

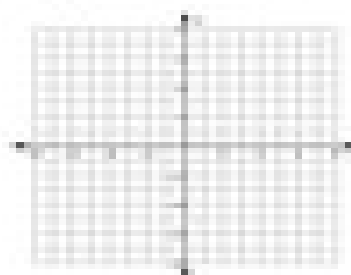
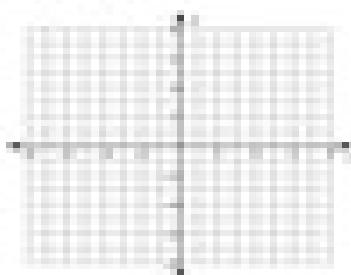
14.  $\frac{(x-1)^2}{25} + \frac{(y-2)^2}{9} = 1$

24.  $\frac{x^2}{16} + \frac{(y+4)^2}{9} = 1$

Graph each equation.

15.  $\frac{x^2}{9} + \frac{y^2}{16} = 1$

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



16.  $\frac{x^2}{36} + \frac{y^2}{25} = 1$

26.  $\frac{x^2}{9} + \frac{y^2}{16} = 1$

