Section 10.3 **DAY 2**

Ellipses, Continued

Standard form of an ellipse:

$$\frac{(x-h)^2}{a^2}+\frac{(y-k)^2}{b^2}=1 \quad or \quad \frac{(y-k)^2}{a^2}+\frac{(x-h)^2}{b^2}=1$$

Example #1:

Graph. Identify the center, vertices, co-vertices, foci, domain, and range of the ellipse.

$$\frac{(x-1)^2}{225}+\frac{(y+5)^2}{324}=1$$

You try: **Find the center, vertices, co-vertices, foci, domain, and range of the ellipse.**

$$\frac{(x+3)^2}{81}+\frac{(y-4)^2}{64}=1$$