9.3: The Ellipse

Attendance Quiz

1. Fill in the *two* missing equations from the "Equation" column of the folowing table.

Equations of ellipses with center (h, k) and major axis parallel to a coordinate axis, $a > b > 0$			
Equation	Major Axis	Foci	Vertices
	horizontal	$(h \pm c, k)$	$(h \pm a, k)$
	vertical	$(h, k \pm c)$	$(h, k \pm a)$

2. Write (using lowercase x) the formula for y^2 in the ellipse with center at $(0, 0)$, focus at $(0, -8)$, and vertex at $(0, 10)$.