4) Ellipse, foci $(0,-1)$, $(8,-1)$ Vertex $(9,-1)$

Since the foci $(0,-1)$, $(8,-1)$ => Horizontal Axis

Center at $c = \dfrac{8-0}{2} = 4 \Rightarrow (4,-1)$

Vertex $(9,-1)$ is 5 units from the center

So $a = 5$, $b = \sqrt{a^2-c^2} = \sqrt{25-16} = \sqrt{9} = 1$

$\therefore \boxed{\dfrac{(x-4)^2}{25} + \dfrac{(y+1)^2}{9} = 1}$