

35. The general form of the solution is

$$x = x_0 + R \cos(\omega t + \delta)$$

$$y = y_0 - R \sin(\omega t + \delta)$$

$$z = z_0 + (t - t_0) \dot{z}_0$$

1/7  
Looking at pictures of the orbit shows that the charge is negative.

$$\omega = \frac{qB}{m} = -\frac{eB}{m}$$

$p_{\perp} = eBR$  where  $R$  is radius of curvature.

See problem 34 solution in the

case  $\vec{E} = 0$ .