#8. a)
$$y=Ix^{2} + \frac{3}{2}x - 7$$

 $x = -\frac{b}{2a}$
 $= \frac{3}{2(1)}$
 $y = (-\frac{3}{4})^{2} + \frac{3}{2}(\frac{3}{4}) - 7$
 $= \frac{q}{16} + \frac{qx^{2}}{8x^{2}} - \frac{7}{1x/c}$
 $= \frac{q}{16} + \frac{qx^{2}}{8x^{2}} - \frac{7}{1x/c}$
 $= \frac{q}{16} + \frac{qx^{2}}{16} - \frac{112}{1c}$
 $x = -\frac{3}{2}x\frac{1}{2}$
 $y = (x - (-\frac{3}{4}))^{2} - \frac{85}{16}$
 $\frac{y}{16} = (x + \frac{3}{4})^{2} - \frac{3}{16}$
 $\frac{y}{16} = \frac{1}{16} + \frac{1}{16} - \frac{1}{16}$
 $\frac{y}{16} = \frac{1}{16} - \frac{1}{16}$
 $\frac{y}{16} = \frac{1}{16} - \frac{1}{16}$
 $\frac{y}{16} - \frac{1}{16} - \frac{1}{16}$
 $\frac{y}{16$