3.3:37 Solve.

$$-\frac{9}{8}y+81=\frac{9y}{16}$$

8	=	(2) (2) (2)
16	=	(2) (2) (2) (2)
LCD = (2) (2) (2) (2)		

$$\frac{(2)(2)(2)(2)}{(1)}\left[-\frac{(9)}{(2)(2)(2)}y+\frac{(81)}{(1)}\right]=\frac{(2)(2)(2)(2)}{(1)}\left[\frac{(9y)}{(2)(2)(2)(2)}\right]$$

$$\left[-\frac{(\not2)(\not2)(\not2)(2)(9)}{(1)(\not2)(\not2)(\not2)}y+\frac{(2)(2)(2)(2)(81)}{(1)(1)}\right]=\left[\frac{(\not2)(\not2)(\not2)(\not2)(9y)}{(1)(\not2)(\not2)(\not2)(\not2)}\right]$$

$$\left[-(2)(9)y\right]+\left[(2)(2)(2)(2)(81)\right]=\left[(9y)\right]$$

$$\left[-18y\right]+\left[(16)(81)\right]=\left[9y\right]$$

$$-18y+1296=9y$$

$$-18y-9y+1296=9y-9y$$

$$-27y+1296=0$$

$$-27y+1296-1296=0-1296$$

$$-27y=-1296$$

$$\frac{-27y}{-27}=\frac{-1296}{-27}$$

$$y=\frac{(16)(81)}{27}$$

$$y=\frac{(16)(3)\cancel{(27)}}{\cancel{(27)}}$$

$$y=48$$

	81
x	16
	486
+	810
	1296