ex1 $\frac{7}{y-3} = \frac{3}{y+1}$

LCD $(y-3)(y+1)$

$$\frac{(y-3)(y+1)(7)}{(y-3)} = \frac{(3)(y-3)(y+1)}{(y+1)}$$

$$7y + 7 = 3y - 9$$

$$4y = -16$$

$$y = -4$$

ex2

LCD $(y-2)(y+2)(3)$

$$\frac{(y+2)}{(y-2)} + \frac{(-2)}{(y+2)} = \frac{(-7)}{(3)}$$

$$\frac{(y-2)(y+2)(3)(y+2)}{(y-2)} + \frac{(-2)(y-2)(y+2)(3)}{(y+2)} = \frac{(-7)(y-2)(y+2)(3)}{(3)}$$

$$3(y^2+4y+4) + -6(y-2) = -7(y^2-4)$$

$$3y^2+12y+12-6y+12 = -7y^2+28$$

$$+7y^2 \qquad -28 \qquad +7y^2-28$$

$$10y^2+6y-4=0$$

$$2(5y^2+3y-2)=0$$

$$2(5y-2)(y+1)=0$$

$5y-2=0$ $\quad y+1=0$

$5y=2$ $\quad y=-1$

$y=\frac{2}{5}$