$$\frac{x^2}{x-2} - \frac{x}{x-2} = 0$$

$$\frac{x(x-1)}{x-2} = 0 \qquad x \neq 2$$

$$x_1 = 0$$
$$x_2 = 1$$

$$\frac{y^2-6y}{y-5} = \frac{5}{5-y} \qquad \frac{y^2-6y}{y-5} - \frac{5}{5-y} = 0$$

$$\frac{y^2-6y}{y-5} + \frac{5}{y-5} = 0 \qquad \frac{y^2-6y+5}{y-5} = 0$$

$$\frac{(x-5)(y-1)}{y-5} = 0 \qquad y = 1, \; y \neq 5$$

$$\frac{5y+1}{y+1} = \frac{y+2}{y} \qquad \frac{5y+1}{y+1} - \frac{y+2}{y} = 0 \quad / \cdot y(y+1)$$

$$\frac{5y^2+y-(y+1)(y+2)}{y(y+1)} = 0$$

$$\frac{5y^2+y-(y^2+3y+2)}{y(y+1)} = 0$$

$$\frac{5y^2+y-y^2-3y-2}{y(y+1)} = 0 \qquad \frac{(2y+1)(y-1)}{y(y+1)} = 0$$

$$y \neq 0 \quad y \neq -1 \qquad y = 1, \; y = -\frac{1}{2}$$