Pair of Linear Equations in two Variables : Worksheet -4

1. Solve each of the following pairs of equations by reducing them in to a pair of linear equations.

(i) $\frac{5}{x-1}+\frac{1}{y-2}=2$

$\frac{6}{x-1}-\frac{3}{y-2}=1$

(ii) $\frac{x+y}{xy}=2$

$\frac{x-y}{xy}=6$

(iii) $\frac{2}{\sqrt{x}}+\frac{3}{\sqrt{y}}=2$

$\frac{4}{\sqrt{x}}-\frac{9}{\sqrt{y}}=1$

(iv) $\frac{5}{x+y}-\frac{2}{x-y}=1$

$\frac{15}{x+y}+\frac{7}{x-y}=10$ *where* $x\neq 0, y\neq 0$