Systems of Equations – Reciprocal Method

Solve the following equations.

$$\frac{3}{x} + \frac{4}{y} = 7$$
$$\frac{5}{x} + \frac{4}{y} = 1$$

$$\frac{-7}{x} + \frac{9}{y} = 17$$
$$\frac{1}{x} + \frac{8}{y} = -21$$

$$\frac{6}{x} - \frac{7}{y} = -23$$
$$\frac{-7}{x} + \frac{5}{y} = 11$$

$$\frac{2}{x} + \frac{7}{y} = -5$$
$$\frac{3}{x} + \frac{1}{y} = 21$$

$$\frac{4}{x} + \frac{5}{y} = -2$$
$$\frac{8}{x} + \frac{7}{y} = 14$$

$$\frac{4}{x} + \frac{3}{y} = -18$$
$$\frac{-3}{x} - \frac{4}{y} = 17$$

$$\frac{-7}{x} + \frac{9}{y} = -10$$
$$\frac{3}{x} + \frac{5}{y} = 22$$

$$\frac{6}{x} + \frac{5}{y} = -5$$
$$\frac{3}{x} - \frac{1}{y} = 22$$

$$\frac{3}{x} + \frac{5}{y} = 12$$
$$\frac{2}{x} + \frac{3}{y} = 6$$

$$\frac{4}{x} + \frac{5}{y} = 21$$
$$\frac{5}{x} + \frac{7}{y} = 24$$