1. Solve the following pair of equations :

$$-\frac{6}{x}-\frac{9}{y}=(-9)$$

$$-\frac{3}{x}+\frac{6}{y}=27$$

(i) $((\frac{-1}{3}),\frac{1}{3})$ (ii) $((\frac{-1}{3}),1)$ (iii) $(-1,\frac{1}{3})$ (iv) $((\frac{-1}{3}),(\frac{-1}{3}))$

2. Solve the following pair of equations :

$$-4x+\frac{16}{y}=(-4)$$

$$6x+\frac{15}{y}=84$$

(i) $(9,(\frac{-1}{2}))$ (ii) $(9,1)$ (iii) $(9,\frac{1}{2})$ (iv) $(11,\frac{1}{2})$ (v) $(10,\frac{1}{2})$

3. Solve the following pair of equations :

$$\frac{6}{x}-5y=(-17)$$

$$\frac{8}{x}+5y=(-11)$$

(i) $((\frac{-1}{2}),1)$ (ii) $((\frac{-1}{2}),0)$ (iii) $((\frac{-1}{2}),-2)$ (iv) $((\frac{-3}{2}),1)$ (v) $(1,1)$

4. Solve the following pair of equations :

$$\frac{6}{(x+y)}+\frac{5}{(x-y)}=1$$

$$-\frac{5}{(x+y)}+\frac{2}{(x-y)}=(-7)$$

(i) $(1,1)$ (ii) $(0,0)$ (iii) $(0,1)$ (iv) $(3,1)$ (v) $(0,-2)$

Solve the following pair of equations :

5. $\frac{12}{(3x+y)} - \frac{1}{(3x-y)} = (-103)$

$\frac{3}{(3x+y)} - \frac{16}{(3x-y)} = 53$

(i) $(\frac{-7}{137}, \frac{2}{45})$ (ii) $(\frac{-7}{135}, \frac{2}{43})$ (iii) $(\frac{-1}{27}, \frac{2}{45})$ (iv) $(\frac{-7}{135}, \frac{2}{45})$ (v) $(\frac{-7}{135}, 0)$

Solve the following pair of equations :

6. $\frac{5}{(x+7)} + \frac{4}{y} = 4$

$\frac{16}{(x+7)} + \frac{3}{y} = 101$

(i) $(\frac{-55}{8}, -3)$ (ii) $(\frac{-55}{8}, -1)$ (iii) $(3, (\frac{-1}{9}))$ (iv) $(1, (\frac{-1}{9}))$ (v) $(\frac{-55}{8}, (\frac{-1}{9}))$

Solve the following pair of equations :

7. $(3x-3y) = 33xy$

$(-7x-16y) = 15xy$

(i) $(\frac{-3}{4}, \frac{1}{7})$ (ii) $(\frac{-1}{4}, (\frac{-1}{7}))$ (iii) $(\frac{-1}{4}, \frac{1}{7})$ (iv) $(\frac{-1}{4}, \frac{1}{5})$ (v) $(\frac{-1}{2}, \frac{1}{7})$

Solve the following pair of equations :

8. $\frac{(-7x+13y)}{xy} = -23$

$\frac{(-4x+14y)}{xy} = -46$

(i) $(\frac{-1}{3}, (\frac{-1}{6}))$ (ii) $(\frac{-1}{5}, (\frac{-1}{8}))$ (iii) $(\frac{-3}{5}, (\frac{-1}{6}))$ (iv) $(\frac{-1}{5}, (\frac{-1}{6}))$ (v) $(\frac{-1}{5}, \frac{1}{6})$

Solve the following pair of equations :

9. $-\frac{5}{\sqrt{x}} + \frac{2}{\sqrt{y}} = -13$

$\frac{2}{\sqrt{x}} - \frac{2}{\sqrt{y}} = 4$

(i) $(\frac{1}{9}, 1)$ (ii) $(\frac{1}{11}, 1)$ (iii) $(\frac{1}{9}, 0)$ (iv) $(\frac{1}{9}, -2)$ (v) $(\frac{1}{3}, 1)$

Solve the following pair of equations :

10. $\frac{2}{x} - \frac{5}{y} = (-24)$

$\frac{1}{x} - \frac{4}{y} = (-21)$

(i) $(\frac{1}{3}, (\frac{-1}{6}))$ (ii) $(\frac{1}{3}, \frac{1}{6})$ (iii) $(\frac{1}{5}, \frac{1}{6})$ (iv) $(\frac{1}{3}, \frac{1}{4})$ (v) $(1, \frac{1}{6})$

Solve the following pair of equations :

11. $-5x + \frac{8}{y} = (-11)$

$3x - \frac{8}{y} = 13$

(i) $(2, (\frac{-1}{2}))$ (ii) $(-1, (\frac{-1}{4}))$ (iii) $(-1, \frac{1}{2})$ (iv) $(0, (\frac{-1}{2}))$ (v) $(-1, (\frac{-1}{2}))$

Solve the following pair of equations :

12. $\frac{1}{x} + 2y = (-9)$

$\frac{11}{x} - 5y = (-45)$

(i) $((\frac{-1}{3}), -2)$ (ii) $((\frac{-1}{5}), -3)$ (iii) $((\frac{-3}{5}), -2)$ (iv) $((\frac{-1}{5}), -2)$ (v) $((\frac{-1}{5}), -5)$

Solve the following pair of equations :

13. $-\frac{13}{(x+y)} - \frac{6}{(x-y)} = 36$

$-\frac{10}{(x+y)} - \frac{12}{(x-y)} = (-24)$

(i) $((\frac{-1}{84}), (\frac{-13}{84}))$ (ii) $(\frac{1}{84}, (\frac{-13}{84}))$ (iii) $((\frac{-1}{84}), (\frac{-13}{82}))$ (iv) $((\frac{-1}{86}), (\frac{-13}{84}))$ (v) $((\frac{-1}{84}), (\frac{-5}{28}))$

14. Solve the following pair of equations :

$$-\frac{7}{(4x+y)}-\frac{1}{(4x-y)}=18$$

$$\frac{3}{(4x+y)}+\frac{5}{(4x-y)}=6$$

(i) $(0,(\frac{-1}{3}))$ (ii) $(0,-1)$ (iii) $(1,(\frac{-1}{3}))$ (iv) $(3,(\frac{-1}{3}))$

15. Solve the following pair of equations :

$$-\frac{2}{(x+7)}-\frac{6}{(y-8)}=(-32)$$

$$-\frac{7}{(x+7)}+\frac{4}{(y-8)}=63$$

(i) $(2,\frac{57}{7})$ (ii) $(1,\frac{57}{7})$ (iii) $((\frac{-36}{5}),-1)$ (iv) $((\frac{-36}{5}),\frac{57}{7})$ (v) $((\frac{-36}{5}),-2)$

16. Solve the following pair of equations :

$(2x+12y)=(-18xy)$

$(6x-2y)=(-16xy)$

(i) $(\frac{1}{-1},(\frac{-1}{3}))$ (ii) $(\frac{1}{-1},(\frac{-1}{5}))$ (iii) $(0,(\frac{-1}{3}))$ (iv) $(\frac{1}{-1},\frac{1}{3})$ (v) $(2,(\frac{-1}{3}))$

17. Solve the following pair of equations :

$$\frac{(3x+3y)}{xy}=-9$$

$$\frac{(-8x+4y)}{xy}=0$$

(i) $((\frac{-3}{2}),\frac{1}{-1})$ (ii) $(1,\frac{1}{-1})$ (iii) $((\frac{-1}{2}),-2)$ (iv) $((\frac{-1}{2}),-4)$ (v) $((\frac{-1}{2}),\frac{1}{-1})$

18. Solve the following pair of equations :

$$-\frac{2}{\sqrt{x}}-\frac{1}{\sqrt{y}}=-16$$

$$-\frac{12}{\sqrt{x}}-\frac{2}{\sqrt{y}}=-80$$

(i) $(\frac{1}{12},\frac{1}{16})$ (ii) $(\frac{1}{38},\frac{1}{16})$ (iii) $(\frac{1}{36},\frac{1}{16})$ (iv) $(\frac{1}{36},\frac{1}{14})$ (v) $(\frac{1}{36},(\frac{-1}{16}))$

Assignment Key

1) (i)	2) (iii)	3) (i)	4) (iii)	5) (iv)	6) (v)
7) (iii)	8) (iv)	9) (i)	10) (ii)	11) (v)	12) (iv)
13) (i)	14) (i)	15) (iv)	16) (i)	17) (v)	18) (iii)