

Simultaneous Equation Exercise

$$1. \begin{cases} 6x + 3y = 5 \\ -8x + 6y = 9 \end{cases}$$

$$2. \begin{cases} 5x - 8y = 16 \\ 3x - 4y = -12 \end{cases}$$

$$3. \begin{cases} 7x + 4y = 0 \\ 5x + 6y = 12 \end{cases}$$

$$4. \begin{cases} 2x - 8y = 16 \\ 3x + 4y = 5 \end{cases}$$

$$5. \begin{cases} -5x - 4y = 16 \\ x + 2y = 8 \end{cases}$$

$$6. \begin{cases} -7x - 4y = 5 \\ 3x - 9y = 32 \end{cases}$$

$$7. \begin{cases} 5x - 6y = 7 \\ 8x + 9y = 10 \end{cases}$$

$$8. \begin{cases} 11x - 5y = 22 \\ 4x + 4y = 3 \end{cases}$$

$$9. \begin{cases} 10x - 6y = 9 \\ x + 3y = 30 \end{cases}$$

$$10. \begin{cases} 3x - 6y = 7 \\ 2x + 4y = 8 \end{cases}$$

$$11. \begin{cases} 4x - 3y = 0 \\ -22x - 6y = 10 \end{cases}$$

$$12. \begin{cases} 6x - 13y = 10 \\ -2x - 7y = 20 \end{cases}$$

$$13. \begin{cases} -6x + 3y = 1 \\ -12x + 7y = 2 \end{cases}$$

$$14. \begin{cases} 10x - 5y = 3 \\ 3x + 8y = 12 \end{cases}$$

$$15. \begin{cases} 13x - 5y = 9 \\ 3x + 4y = 12 \end{cases}$$

$$16. \begin{cases} 11x + 6y = 9 \\ 3x + 14y = 12 \end{cases}$$

$$17. \begin{cases} 8x - 9y = 9 \\ 3x - 5y = 12 \end{cases}$$

$$18. \begin{cases} -8x - 9y = 4 \\ -3x - 5y = 12 \end{cases}$$

$$19. \begin{cases} 5x - 9y = 14 \\ -3x - 15y = 2 \end{cases}$$

$$20. \begin{cases} 5x - 6y = 15 \\ -3x + 5y = 2 \end{cases}$$

Ans

Question	x	y
1	$\frac{1}{20}$	$\frac{47}{30}$
2	-40	-27
3	$-\frac{24}{11}$	$\frac{42}{11}$
4	$\frac{13}{4}$	$-\frac{19}{16}$
5	$-\frac{32}{3}$	$\frac{28}{3}$
6	$\frac{83}{75}$	$-\frac{239}{75}$
7	$\frac{41}{31}$	$-\frac{2}{31}$
8	$\frac{103}{64}$	$-\frac{55}{64}$
9	$\frac{23}{4}$	$\frac{97}{12}$
10	$\frac{19}{6}$	$\frac{5}{12}$
11	$-\frac{1}{3}$	$-\frac{4}{9}$
12	$-\frac{95}{34}$	$-\frac{35}{17}$
13	$-\frac{1}{6}$	0
14	$\frac{84}{95}$	$\frac{111}{95}$
15	$\frac{96}{67}$	$\frac{129}{67}$
16	$\frac{27}{68}$	$\frac{105}{136}$
17	$-\frac{63}{13}$	$-\frac{69}{13}$
18	$\frac{88}{13}$	$-\frac{84}{13}$
19	$\frac{32}{17}$	$-\frac{26}{51}$
20	$\frac{87}{7}$	$\frac{55}{7}$