



Sort It Out...



Linear Simultaneous Equations

Sort these pairs of simultaneous equations into four categories, choosing for each pair the most efficient method for solving. Then solve each pair of simultaneous equations...

1	$x + 2y = 7$ $4x - 2y = 8$	2	$x + 5y = 13$ $x + 7y = 19$	3	$x - 3y = 2$ $4x - 3y = 17$
4	$5x + 2y = 11$ $6x + 2y = 13$	5	$2x + 7y = 29$ $x + 3y = 13$	6	$2x + y = 8$ $9x - 2y = 49$
7	$3x + 4y = 17$ $3x + 2y = 25$	8	$2x - 3y = 11$ $5x + 6y = 14$	9	$-2x + 3y = -7$ $x - 8y = 10$
10	$5x + 2y = -5$ $-5x - 3y = 10$	11	$3x + 2y = 12$ $-x + 11y = 31$	12	$5x + 3y = 6$ $9x + y = 24$
13	$2x - 5y = 2$ $3x - 7y = 4$	14	$4x + 3y = 11$ $7x - 2y = -17$	15	$11x - 4y = 8.5$ $6x - 3y = 3$

A	Match up the x coefficients and add the equations	B	Match up the x coefficients and subtract the equations
10	$x = 1, y = -5$	2	$x = -2, y = 3$
9	$x = 2, y = -1$	5	$x = 4, y = 3$
11	$x = 2, y = 3$	7	$x = 11, y = -4$
		13	$x = 6, y = 2$
C	Match up the y coefficients and add the equations	D	Match up the y coefficients and subtract the equations
1	$x = 3, y = 2$	3	$x = 5, y = 1$
6	$x = 5, y = -2$	4	$x = 2, y = 0.5$
8	$x = 4, y = -1$	12	$x = 3, y = -3$
14	$x = -1, y = 5$	15	$x = 1.5, y = 2$