

Fill in the Blanks

Simultaneous Equations (same x coefficients)

Question	Add or subtract?	Carry out addition or subtraction	Work out y	Substitute y into one equation	Work out x	Check using other equation	State both answers
$x + 3y = 13$ $x + y = 7$	Subtract	$\begin{array}{r} x + 3y = 13 \\ -x + y = 7 \\ \hline 2y = 6 \end{array}$	$y = 3$	$x + 3y = 13$ $x + 9 = 13$	$x = 4$	$x + y = 7$ $4 + 3 = 7$ ✓	$x = 4$ $y = 3$
$3x + y = 19$ $3x - 4y = 14$	Subtract	$\begin{array}{r} 3x + y = 19 \\ -3x - 4y = 14 \\ \hline 5y = 5 \end{array}$	$y = 1$	$3x + y = 19$ $3x + 1 = 19$ $3x = 18$			
$x + 5y = 22$ $-x + 2y = 6$	Add	$\begin{array}{r} x + 5y = 22 \\ + -x + 2y = 6 \\ \hline \end{array}$					
$2x - 5y = 25$ $2x + 3y = 1$	Subtract						
$-3x + y = 10$ $3x + 2y = 11$							
$x + 2y = -7$ $x - 6y = 5$							