Fill in the Blanks — Simultaneous Equations (different y coefficients)

Question	Multiply one or both equations	Add or subtract?	Carry out addition or subtraction	Work out x	Substitute x into one equation	Work out y	State both answers
$2x + y = 9$ $x + 2y = 6$	$4x + 2y = 18$ $x + 2y = 6$	Subtract	$4x + 2y = 18$ $- \ x + 2y = 6$ $\overline{3x \qquad = 12}$	$x = 4$	$2x + y = 9$ $8 + y = 9$	$y = 1$	$x = 4$ $y = 1$
$3x + y = 17$ $2x - 3y = 4$	$9x + 3y = 51$ $2x - 3y = 4$	Add	$9x + 3y = 51$ $+ \ 2x - 3y = 4$ $\overline{11x \qquad = 55}$				
$x - 5y = 9$ $4x + y = 15$	$x - 5y = 9$ $20x + 5y = 75$						
$4x + 3y = 1$ $x - 2y = -8$							
$2x - 5y = 13$ $4x - 2y = 10$							
$x + 6y = 3$ $2x + 9y = 4$							