



Air maths tuition

Interact, engage and perform

Simultaneous Equations - Elimination method - Tutorial 6

$\textcircled{6} \quad 7x - 2y = 22 \quad \textcircled{1}$	$7x - 2y = 22 \quad \textcircled{1}$
$5x + 3y = 29 \quad \textcircled{2}$	$5x + 3y = 29 \quad \textcircled{2}$
$\textcircled{1} \times 5: 35x - 10y = 110 \quad \textcircled{3}$	$\textcircled{1} \times 3: 21x - 6y = 66 \quad \textcircled{3}$
$\textcircled{2} \times 7: 35x + 21y = 203 \quad \textcircled{4}$	$\textcircled{2} \times 2: 10x + 6y = 58 \quad \textcircled{4}$
$\textcircled{4} - \textcircled{3}: \therefore 31y = 93 \quad \quad +21y - 10y = 31y$ $\therefore y = 3$	$\textcircled{3} + \textcircled{4}: 31x = 124 \quad \quad -6y + 6y = 0$ $\therefore x = 4$
$\text{Sub. } y=3 \text{ into } \textcircled{2}: \\ \therefore 5x + 3(3) = 29 \\ \therefore 5x + 9 = 29 \\ \therefore 5x = 20 \\ \therefore x = 4$ $\therefore x=4, y=3$	$\text{Sub } x=4 \text{ into } \textcircled{2}: \\ \therefore 5(4) + 3y = 29 \\ \therefore 20 + 3y = 29 \\ \therefore 3y = 9 \\ \therefore y = 3$ $\therefore x=4, y=3$

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