

Splitting the steps: Rearranging equations

For each equation rearrange to make y the subject of the equation:



Set A

1.	$3y - 6 = 12x$ $3y = 12x + 6$ $y = 4x + \underline{\hspace{1cm}}$	Add 6 to both sides Divide by 3
2.	$5y - 15 = 30x$ $5y = 30x + 15$ $y = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$	Add 15 to both sides Divide by 5
3.	$4y - 16 = 20x$ $4y = 20x + \underline{\hspace{1cm}}$ $y = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$	Add 16 to both sides Divide by $\underline{\hspace{1cm}}$
4.	$10y - 70 = 90x$ $10y = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ $y = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$	Add $\underline{\hspace{1cm}}$ to both sides $\underline{\hspace{1cm}}$
5.	$2y - 8 = 20x$ $\underline{\hspace{1cm}} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ $\underline{\hspace{1cm}} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$
6.	$12y - 36 = 48x$	$\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$

Set B

1.	$4y + 8 = 12x$ $4y = 12x - 8$ $y = 3x + \underline{\hspace{1cm}}$	Subtract 8 from both sides Divide by 4
2.	$11y + 11 = 33x$ $11y = 33x - 11$ $y = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$	Subtract 11 from both sides Divide by 11
3.	$13y + 39 = 26x$ $13y = 26x + \underline{\hspace{1cm}}$ $y = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$	Subtract 39 to both sides Divide by $\underline{\hspace{1cm}}$
4.	$5y + 35 = 10x$ $5y = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ $y = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$	Subtract $\underline{\hspace{1cm}}$ from both sides $\underline{\hspace{1cm}}$
5.	$9y + 18 = 27x$ $\underline{\hspace{1cm}} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ $\underline{\hspace{1cm}} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$
6.	$8y + 54 = 64x$	$\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$

Extension:

(a) $6y - 36 = 24x$ (b) $-2y + 14 = -8x$ (c) $45 - 9y = 18x$ (d) $4x = 8y - 12$