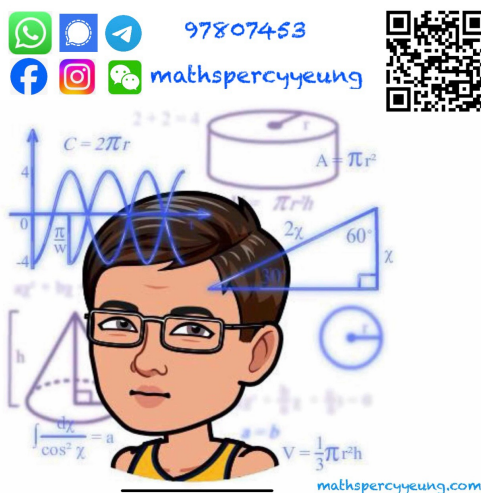


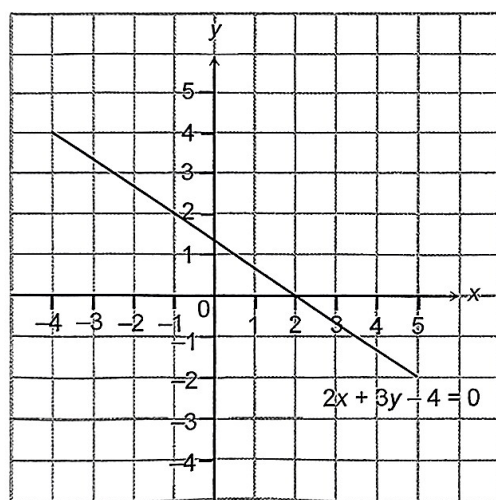
9

Linear Equations in Two Unknowns



Section Q: Write your answers in the spaces provided. working need not be shown.

1.

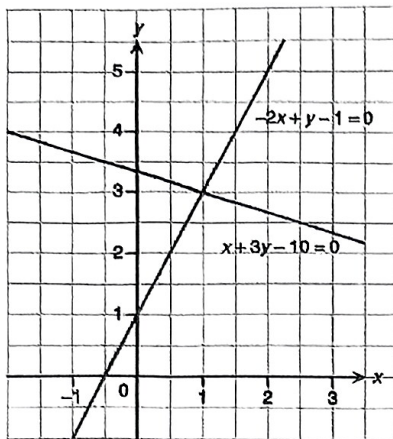


The above figure shows the graph of $2x + 3y - 4 = 0$. Which of the following points lie(s) on the graph? (May be more than one answer)

$P(0, 2)$, $Q(2, 0)$, $R(-2, 3)$, $S(5, -2)$

Answer: _____

NA09-4
2.



The figure shows the graphs of $x + 3y - 10 = 0$ and $-2x + y - 1 = 0$.

Solve $\begin{cases} x + 3y - 10 = 0 \\ -2x + y - 1 = 0 \end{cases}$ graphically.

Answer: $x =$ _____, $y =$ _____

NA09-6
3.

In a museum, the total ticket fee for 2 adults and a child is \$144. The ticket fee for 2 adults is equal to the ticket fee for 5 children. Let \$ x and \$ y be the ticket fees for an adult and a child to visit the museum respectively. Set up a pair of simultaneous equations to show the relation between x and y .

Simultaneous equations: \begin{cases} _____

Section B: Answer in the spaces provided. All working and conclusions must be clearly shown.

NA09-1
4.

Complete the following table for the equation $3x - y - 2 = 0$.

x	-1	0	1
y			1

NA09-1
5.

Complete the following table for the equation $y = \frac{x}{5} + 1$.

x	-5	0	5
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y		1	
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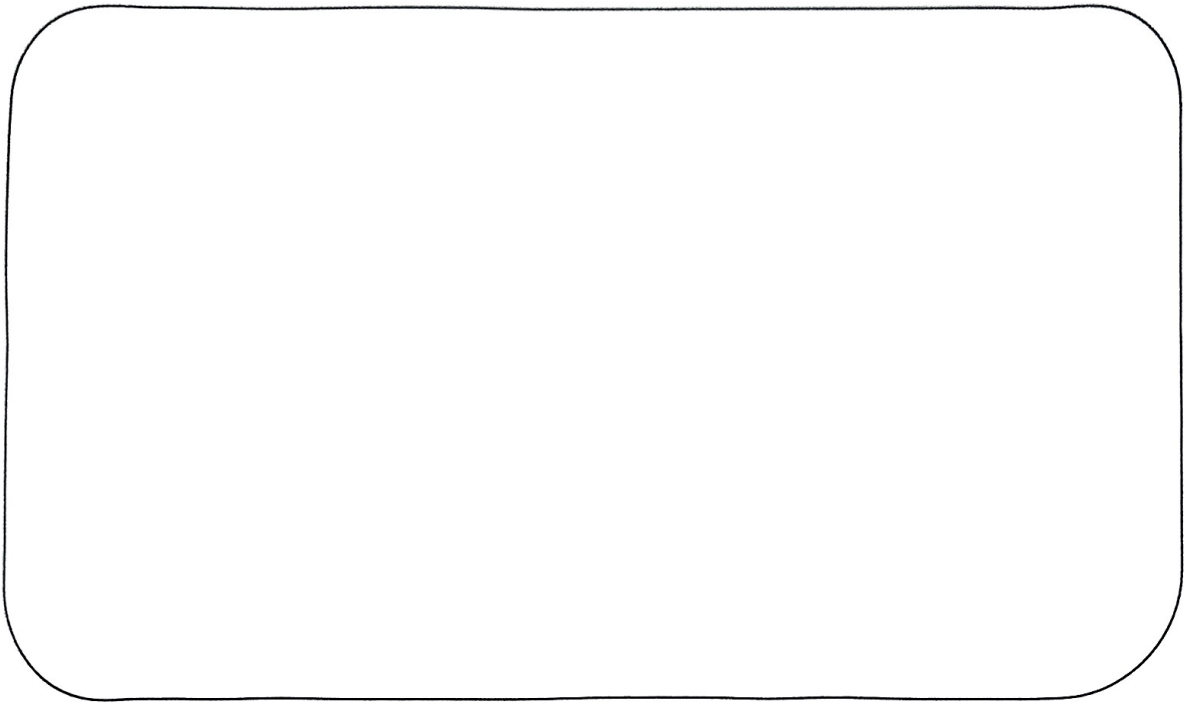
NA09-5

6. Solve the simultaneous equations $\begin{cases} x + y = 2 \\ y = 2x - 1 \end{cases}$.

NA09-5

7. Solve the simultaneous equations $\begin{cases} y = 15x + 3 \\ y = 12x + 9 \end{cases}$.

8. ^{NA09-5} Solve the simultaneous equations $\begin{cases} 4x + 3y = 11 \\ 2x - 3y = 7 \end{cases}$



9. ^{NA09-5} Solve the simultaneous equations $\begin{cases} 5x + 3y = 27 \\ 5x + 7y = 23 \end{cases}$

