



CSEE- Basic Maths

Coordinate Geometry

Questions and Answers

Videos with expert tutorials on each topic

CSEE Basic Maths

Revision Topic: Coordinate Geometry

Section A

Lesson 4 (Revision Week 2)

Instructions: Complete this worksheet and watch this revision video simultaneously on

www.mathsmemory.co.uk/International

Pause and Play the video unlimited times to review your work and write the answers in the blank spaces.
Once you have written your answers, check these with the tutorial answers, as explained in the video.

Self Assess yourself (Out of 10) on your **revision planner** after you have completed the revision video .

Question 1

i) A straight line L_1 passes through the coordinates $A(-1,1)$ and $B(2,7)$.
Find the gradient of L_1

ii) L_2 goes through points $A(4,-3)$ and $B(2,-2)$.
Find the equation of L_2 in terms of $y = mx + c$.

Bronze



Question 2

Which ONE line below is parallel to $y = \frac{1}{2}x - 3$.

A: $y = -\frac{1}{2}x + \frac{1}{2}$

B: $2y = 1 - x$

C: $2x - 4y = 6$

D: $2y = 4x + 3$

Bronze



Question 3

Find the equation of the line that passes through point (3,7) and the midpoint between (1,5) and (3,7).

SILVER



Question 4

Find the equation of the line that passes through point $(-2, 3)$ and which is parallel to the line $2x + 3y - 10 = 0$.



Question 5

i) Find the intersection point of $y = 3x + 4$ and $y = 6 - x$

ii) Find the intersection point of $3x + 2y = 12$ and $2x + 4y = 8$



Question 6

i) Find the perpendicular gradient to:

- a) 4
- b) $\frac{2}{3}$
- c) $-\frac{5}{2}$

ii) Find the equation of the line passing through the mid point of A(-3, 2) and B(1, -6) and perpendicular to AB.

Gold



Question 7

Find the equation of the line passing through point (4, - 1) and perpendicular to the line crossing the x-axis at 2 and the y axis at -3.

Gold





Question 8

Show that triangle ABC is a right angle where $A = (2,1)$, $B = (2,1)$ and $C = (1,3)$.

Platinum

