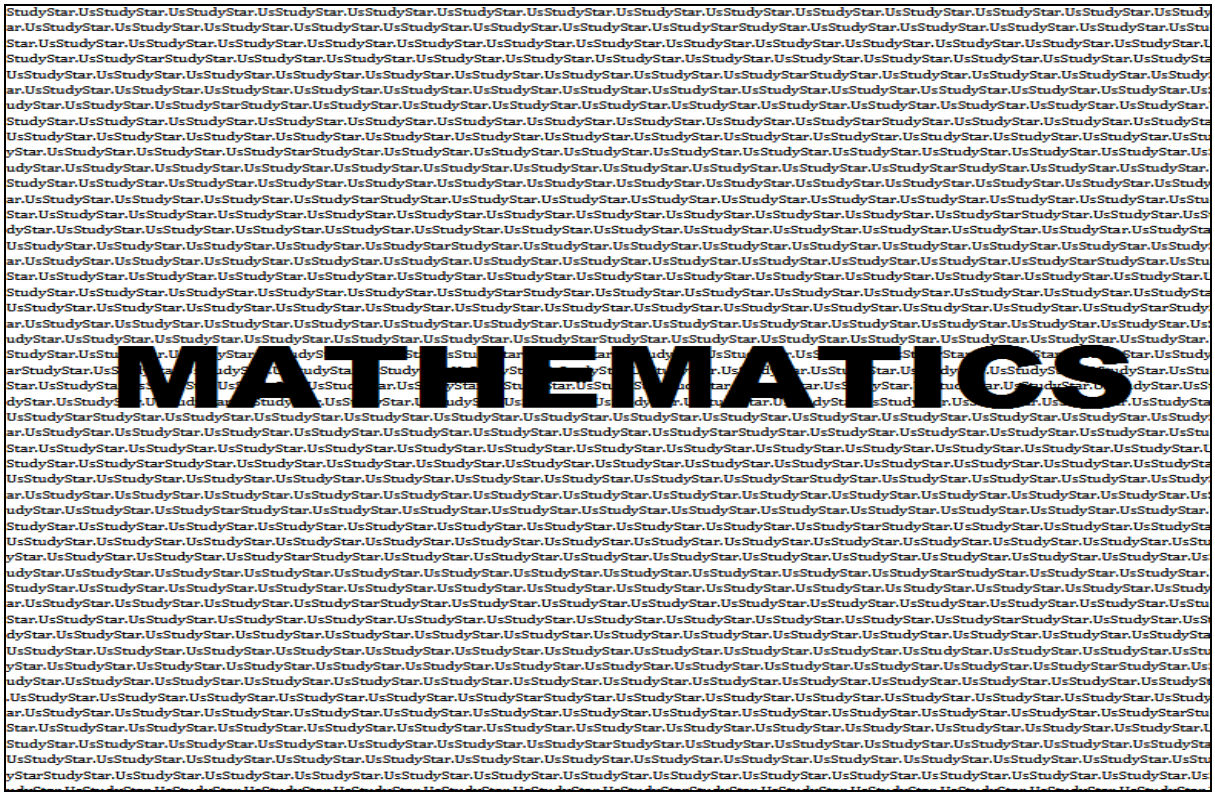

COORDINATE GEOMETRY

Total Marks: 35

Duration: 0 hours, 40 minutes

Instructions to test takers

1. Answer all the questions in this paper
2. All the answers for the questions in this paper will be found on **Study Star** (www.studystar.me)
3. Using the answers on the website, mark yourself truthfully and carefully.

Turn this page, time yourself and begin the test

Section A

1. Find the midpoint between A(2, 5) and B(-6, -1). [2]

2. State the coordinates of the midpoint between X(-3, 5) and (7, 3). [2]

3. Given that M(0, 3) is the midpoint of P(x, 10) and Q(5, -4). Find the value of x. [2]

4. It is given that M(7, 8) and N(1, y) have a midpoint A(4, 5). Find the value of y. [2]

5. Find the distance between X(1, 5) and Y(4, 1). [2]

6. The distance between A(x, 5) and B(3, 5) is 2 units. Find the value of x. [3]

7. State the gradient between (3, 2) and (4, 5). [2]

8. Find the perpendicular gradient to the line between (-1, 5) and (7, 3). [3]

9. Show that the points (4, 3), (5, 5) and (6, 7) are collinear. [3]

10. State the gradient of the line $3y - 6x = 7$. [1]

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Section B

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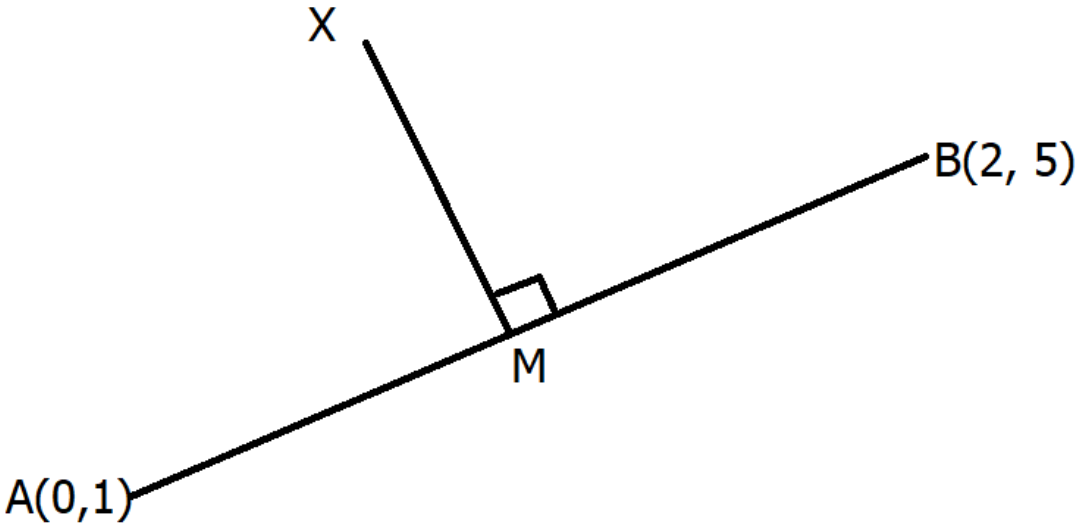
11. Study the diagram below.



Find the gradient of the line XM. [2]

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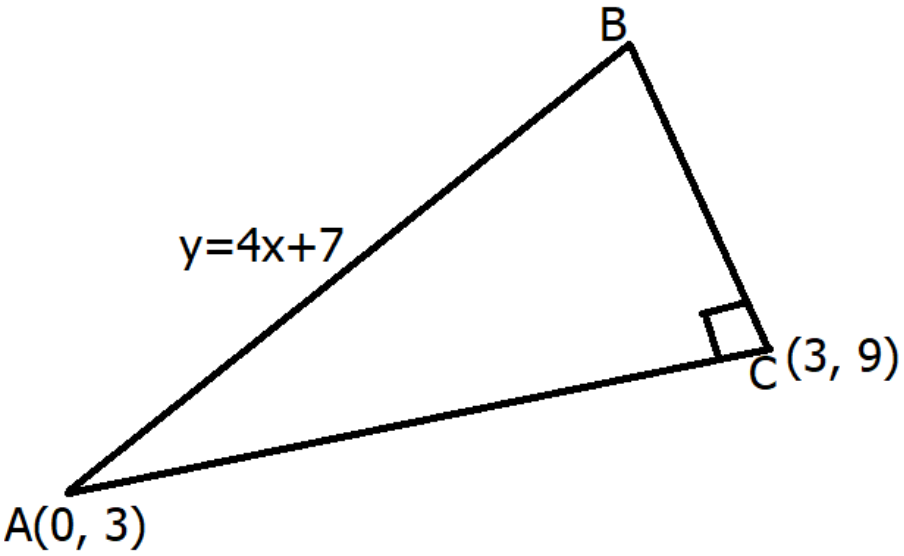
12. Study the diagram below.

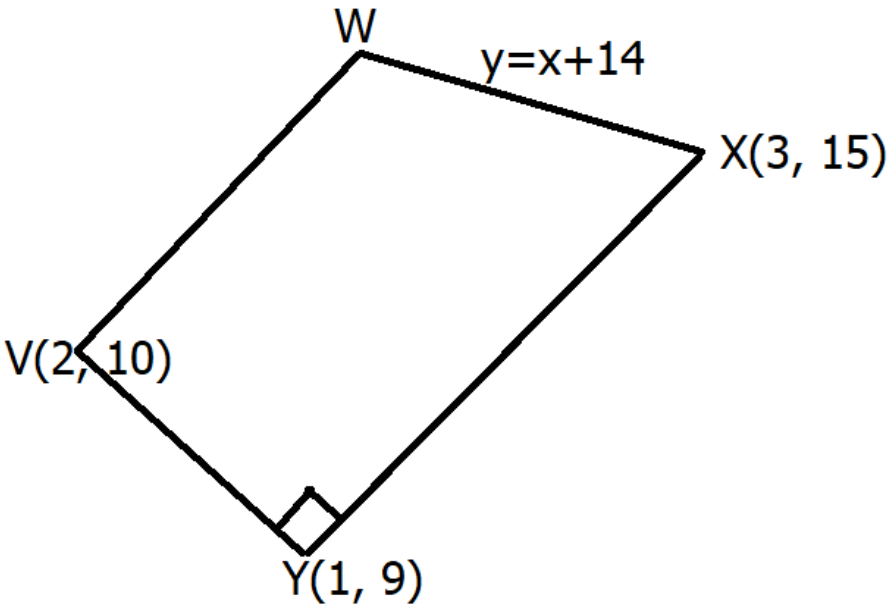


State the gradient AC. [2]

13. Find the equation BC. [3]

14. Find the coordinates of B. [2]

15. Study the diagram below.



Find the coordinates of W. [4]

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