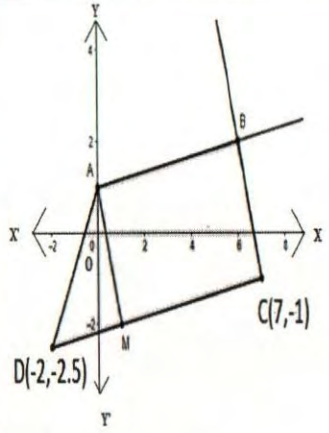
Assignment for HSC Examinees, 2022

Subject: Higher Mathematics | Paper: 1st | Subject Code: 265 | Level: HSC

<table>
<tr><th>Assignment Number</th><th>Assignment</th><th>Learning Outcomes</th><th>Guidelines (cues/steps or stages)</th><th>Assessment Criteria /Rubric</th><th>Co m'ts</th></tr>
<tr>
<td>03

Chapter - 03

Straight Line</td>
<td> 

In the figure, ABCD is a Trapezium where AB ∥ CD.The point M lies on DC that 2DM = MC. AM ∥ BC and the slope of the straight line is -৩.</td>
<td>• establish the formula to find distance between two points and apply .
• determine the coordinates of a point that divides the line segment joining two points in a given ratio
• determine the slope of a straight line passing through two given points
• determine the equation of straight line parallel to coordinates axes
• determine the point of intersection of two straight lines.
• determine the equation of straight line under different conditions.
• determine the perpendicular distance of a straight line from a point.</td>
<td>a. Determine the coordinate of the point M.

b. Determine the coordinate of the point B.

c. Determine the perpendicular distance between the lines AM and BC.

d. Determine the standard equation of bisector of the acute angle between the lines AM and BC at the point B.</td>
<td>
<table>
<tr><th rowspan="2">Indicators</th><th colspan="4">Rating Scale</th><th rowspan="2">Score</th></tr>
<tr><th>4</th><th>3</th><th>2</th><th>1</th></tr>
<tr><td>a</td><td></td><td></td><td>Determined the coordinate</td><td>used the formula of internal division</td><td></td></tr>
<tr><td>b</td><td>Determined the coordinate of the point B</td><td>Determined the equations both of AB and BC</td><td>Determined the coordinate of the point A and find any one equation of AB or BC</td><td>Determined the coordinate of the point A</td><td></td></tr>
<tr><td>c</td><td></td><td></td><td>Determined the perpendicular distance between the lines AM and BC.</td><td>Applied the formula to find the perpendicular distance between two parallel straight lines.</td><td></td></tr>
<tr><td>d</td><td>Expressed the standard equation of the bisector of acute angle</td><td>Applied the formula to identify the bisector of the acute angle</td><td>Determined the equation of bisector between the lines AM and BC</td><td>Determined the equation of the lines AB and BC</td><td></td></tr>
<tr><td colspan="5">Total</td><td></td></tr>
<tr><td colspan="6">Total marks for this assignment:12</td></tr>
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