

Subject – Math AI (Standard Level)
Topic - Geometry and Trigonometry
Year - May 2021 – Nov 2022
Paper -1
Answers

Question 1

(a) $\frac{3-1}{7-3}$ (M1)
 $= 0.5$ A1
[2 marks]

(b) $y-2 = -2(x-5)$ (A1)(M1)

Note: Award (A1) for their -2 seen, award (M1) for the correct substitution of (5, 2) and their normal gradient in equation of a line.

$2x + y - 12 = 0$ A1
[3 marks]

(c) every point in the cell is closer to E than any other snow shelter A1
[1 mark]

Total [6 marks]

Question 2

(a) $135^\circ \times \frac{12\pi}{360^\circ}$ (M1)(A1)
 14.1 (m) (14.1371...) A1
[3 marks]

(b) evidence of splitting region into two areas (M1)
 $135^\circ \times \frac{\pi 6^2}{360^\circ} - \frac{6 \times 6 \times \sin 135^\circ}{2}$ (M1)(M1)
 $42.41115... - 12.7279...$
 29.7 m^2 (29.6835...) A1
[4 marks]
Total [7 marks]

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LL Leslie

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