

Subject – Math AI (Standard Level)
Topic – Calculus
Year – May 2021 – Nov 2022
Paper -2
Questions

Question 1

(a) $2(8 \times 4 + 3 \times 4 + 3 \times 8)$
 $= 136 \text{ (cm}^2\text{)}$

M1

A1

[2 marks]

(b) $\sqrt{8^2 + 4^2 + 3^2}$
 (AG \rightarrow) 9.43 (cm) (9.4339..., $\sqrt{89}$)

M1

A1

[2 marks]

(c) $-2x + 220 = 0$
 $x = 110$
 110 000 (boxes)

M1

A1

A1

[3 marks]

(d) $P(x) = \int -2x + 220 \, dx$

M1

Note: Award **M1** for evidence of integration.

$P(x) = -x^2 + 220x + c$

A1A1

Note: Award **A1** for either $-x^2$ or $220x$ award **A1** for both correct terms and constant of integration.

$1700 = -(20)^2 + 220(20) + c$

M1

$c = -2300$

$P(x) = -x^2 + 220x - 2300$

A1

[5 marks]

(e) $-x^2 + 220x - 2300 = 0$
 $x = 11.005$
 11 006 (boxes)

M1

A1

A1

[3 marks]

Total [15 marks]

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