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Elementary Mathematics (4016/01) version 1.1

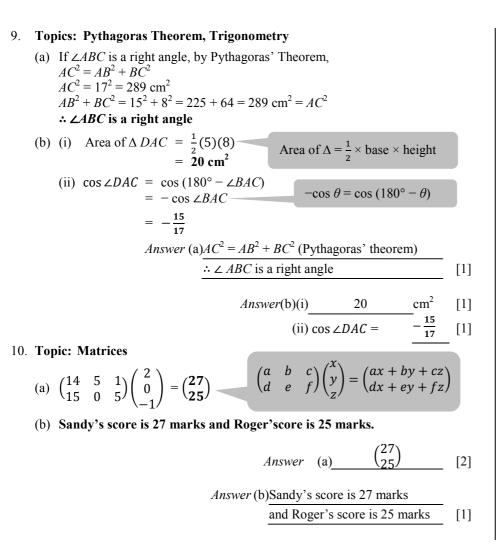


5. Topic: Arithmetic
(a)
$$\frac{2}{5} \rightarrow 54.20$$

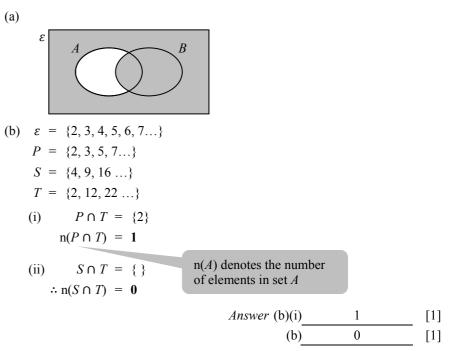
 $\frac{3}{5} \rightarrow \frac{54.20}{2} \times 3$
 $= 56.30$
(b) $50.99 \rightarrow x$ grams
 $\$1 \rightarrow \frac{100x}{99}$ grams
 $x_{1} \rightarrow \frac{100x}{99}$ grams
 $x_{1} \rightarrow \frac{100x}{99}$ grams
 $x_{1} \rightarrow \frac{100x}{99}$ grams
(b) $\frac{100}{99}$ xy grams
(c) $\frac{100}{9}$ xy grams
(c) $\frac{100$

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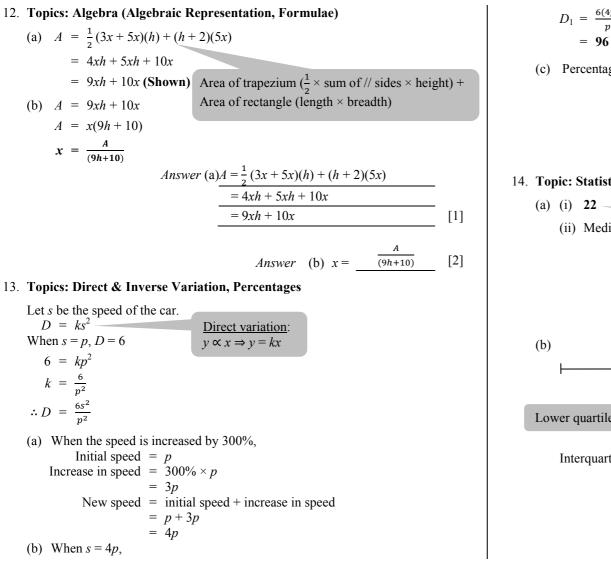


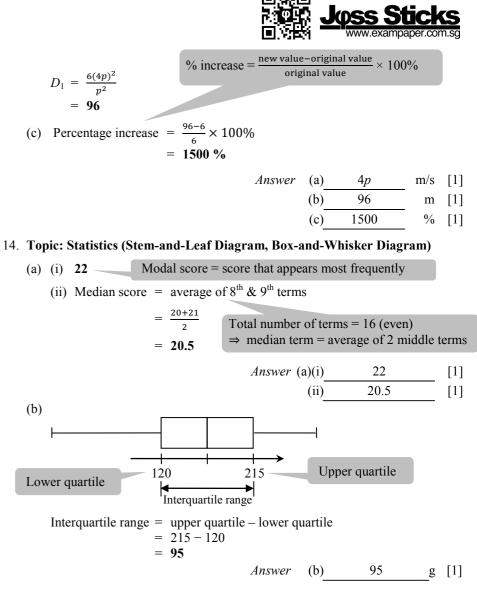


11. Topic: Set Language and Notation



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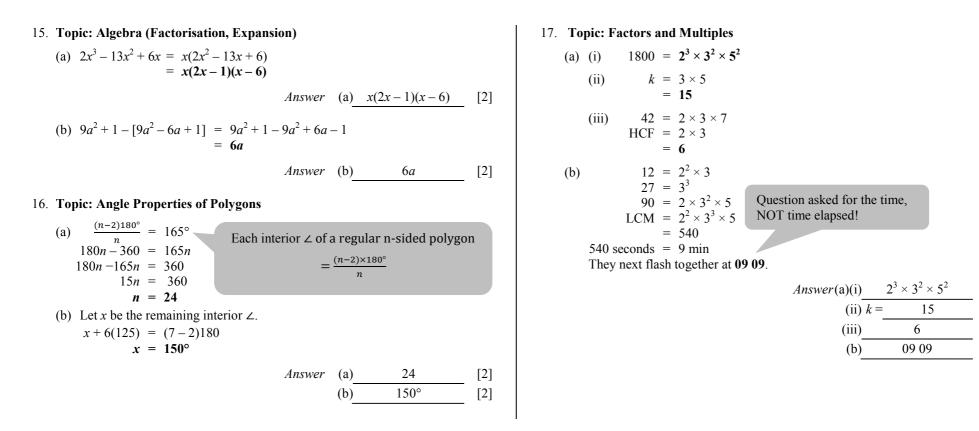
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For tuition, exam papers & Last-Minute Buddha Foot Hugging Syndrome treatment +65 93805290 / missloi@exampaper.com.sg www.exampaper.com.sg facebook.com/JossSticksTuition T twitter.com/MissLoi

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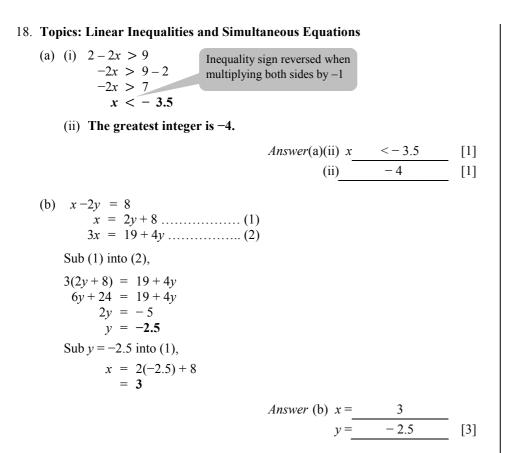
[1]

[1]

[1]

[2]





19. Topic: Areas & Volumes of Similar Figures

Let h_1, A_1, V_1 be the height, surface area and volume, respectively, of the smaller jug.

Let h_2 , A_2 , V_2 be the height, surface area and volume, respectively, of the larger jug.

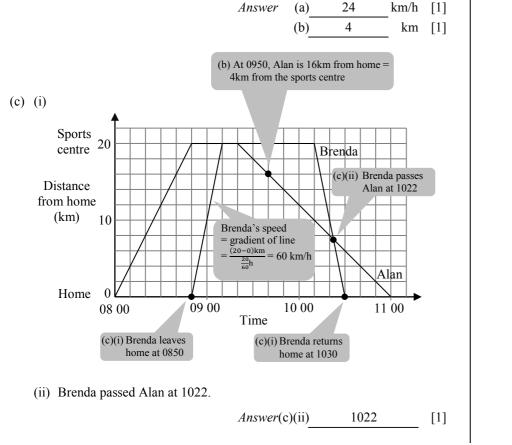
(a)
$$\frac{A_1}{A_2} = \left(\frac{h_1}{h_2}\right)^2$$

 $\frac{h_1}{h_2} = \sqrt{\frac{45}{125}}$
 $= \frac{3}{5}$
(b) $\frac{A_1}{A_2} = \frac{45}{125}$
 $\frac{63}{A_2} = \frac{45}{125}$
 $A_2 = 175 \text{ cm}^2$
(c) $\frac{V_1}{V_2} = \left(\frac{h_1}{h_2}\right)^3$
 $\frac{V_1}{2.5} = \left(\frac{3}{5}\right)^3$ Using ratio of $\frac{h_1}{h_2}$ obtained in (a)
 $V_1 = 0.54 l$
 $= 540 \text{ cm}^3$
Answer (a) $3 : 5 = \frac{5}{125} [1]$
(b) $\frac{175}{175} = \frac{5}{125} [2]$
(c) $\frac{540}{175} = \frac{5}{125} [2]$

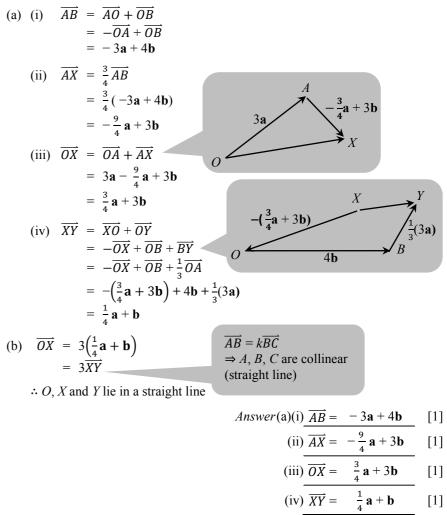
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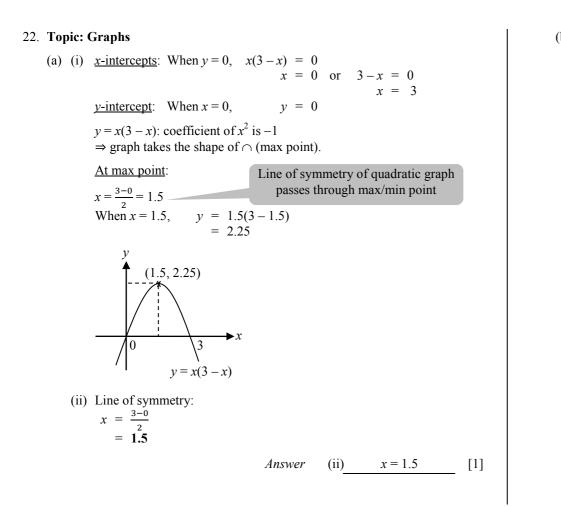
- 20. Topic: Graphs in Practical Situations
 - (a) Speed = $20 \div \frac{50}{60}$ = 24 km/h
 - (b) He was 4 km from the sports centre.

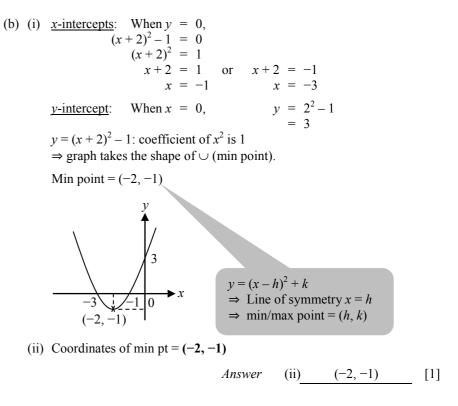


21. Topic: Vectors in Two Dimensions









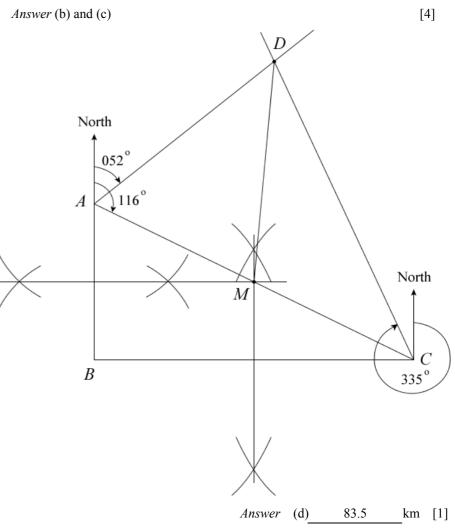
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GCE 'O' Level October/November 2008 Suggested Solutions

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23. Topics: Bearings and Geometrical Constructions (a) Bearing of C from $A = 116^{\circ}$ 116° [1] Answer (a) (d) Given AB = 60 km Scale: 6 cm : 60 km Measured on actual 1 cm : 10 km question paper. DM = 8.35 cm \Rightarrow 83.5 km





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