

IB Math SL – Extended Response Practice – Solving Triangles – Markscheme

1.

- (a) evidence of choosing sine rule (M1) (M1)
 eg $\frac{AC}{\sin CBA} = \frac{AB}{\sin ACB}$
 correct substitution (A1) (A1)
 eg $\frac{AC}{\sin 44^\circ} = \frac{15}{\sin 83^\circ}$
 10.4981
 $AC = 10.5$ (cm) A1 N2 [3 marks]
- (b) finding \hat{CAB} (seen anywhere) (A1) (A1)
 eg $180^\circ - 44^\circ - 83^\circ$, $\hat{CAB} = 53^\circ$
 correct substitution for area of triangle ABC (A1) (A1)
 eg $\frac{1}{2} \times 15 \times 10.4981 \times \sin 53^\circ$
 62.8813
 area = 62.9 (cm²) A1 N2 [3 marks]
- (c) correct substitution for area of triangle DAC (A1) (A1)
 eg $\frac{1}{2} \times 6 \times 10.4981 \times \sin \theta$
 attempt to equate area of triangle ACD to half the area of triangle ABC (M1) (M1)
 eg area ACD = $\frac{1}{2}$ × area ABC; 2ACD = ABC
 correct equation (A1) (A1)
 eg $\frac{1}{2} \times 6 \times 10.4981 \times \sin \theta = \frac{1}{2} (62.9)$, $62.9887 \sin \theta = 62.8813$, $\sin \theta = 0.998294$
 86.6531, 93.3468
 $\theta = 86.7^\circ$, $\theta = 93.3^\circ$ A1A1 N2 [5 marks]
- (d)

Note: Note: if candidates use an acute angle from part (c) in the cosine rule, award M1A0A0 in part (d).
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 evidence of choosing cosine rule (M1) (M1)
 eg $CD^2 = AD^2 + AC^2 - 2 \times AD \times AC \times \cos \theta$
 correct substitution into rhs (A1) (A1)
 eg $CD^2 = 6^2 + 10.498^2 - 2(6)(10.498) \cos 93.336^\circ$
 12.3921
 12.4 (cm) A1 N2 [3 marks]
- Total [14 marks]**

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