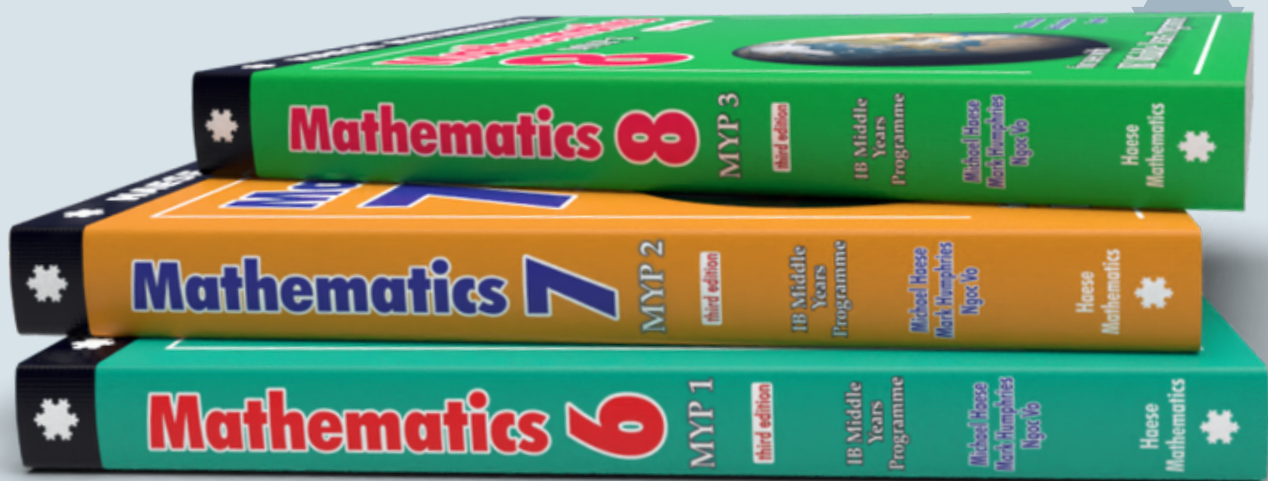




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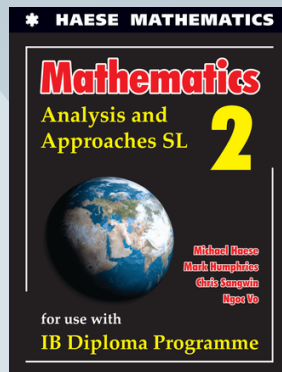
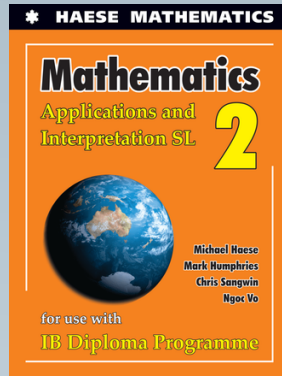
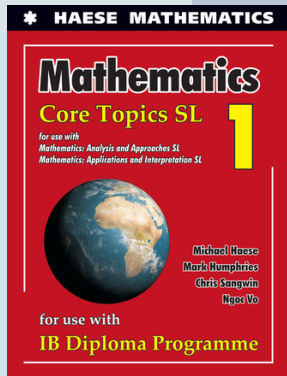


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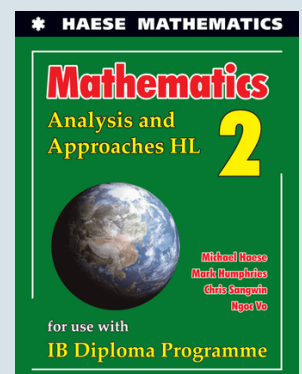
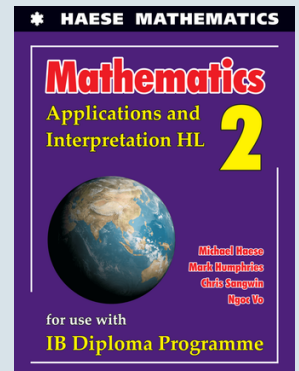
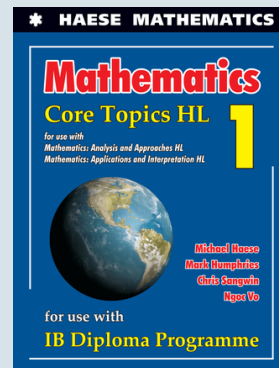
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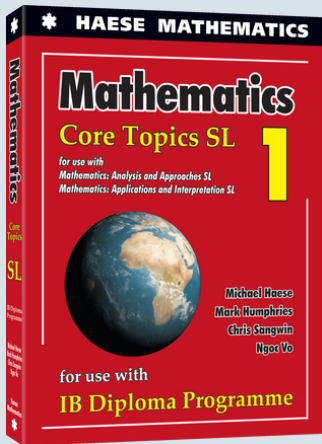
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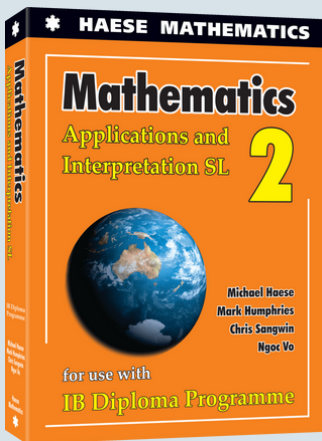
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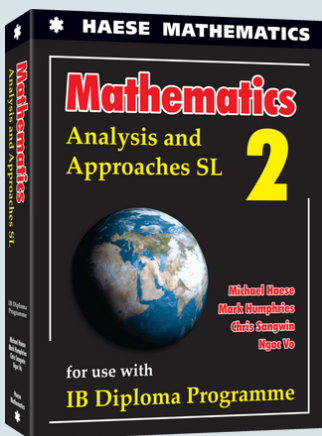
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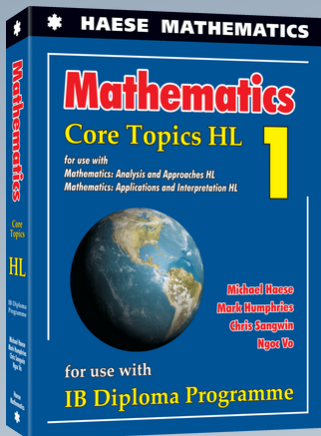


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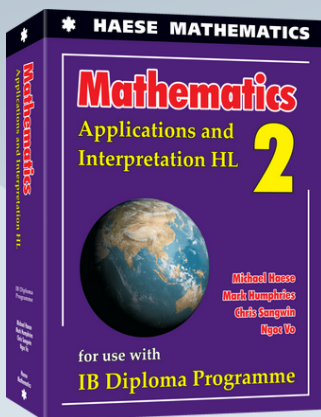
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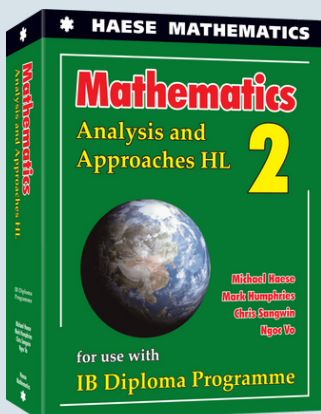
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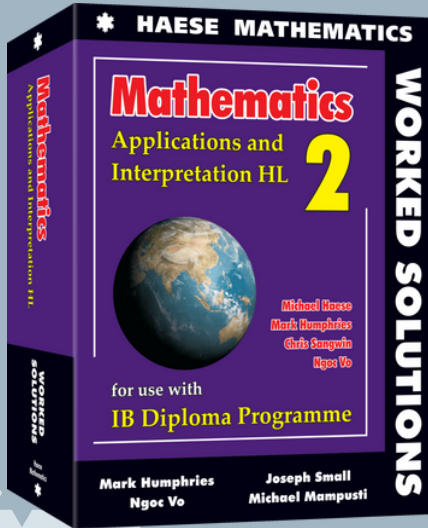


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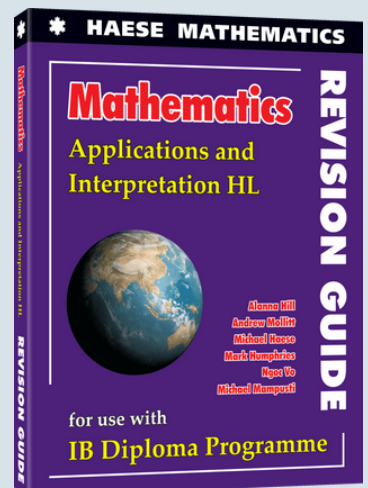
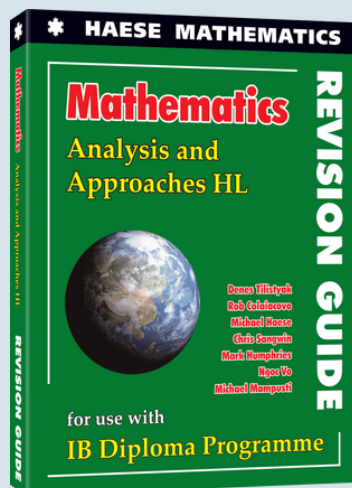
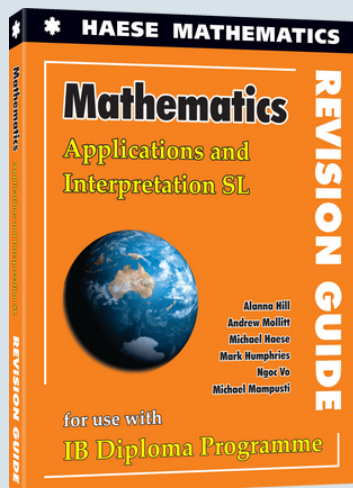
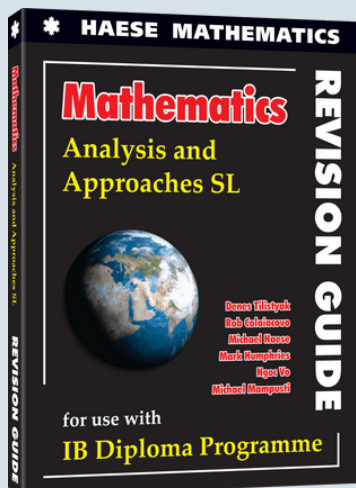
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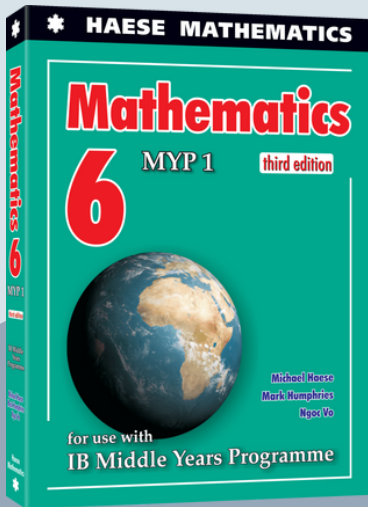
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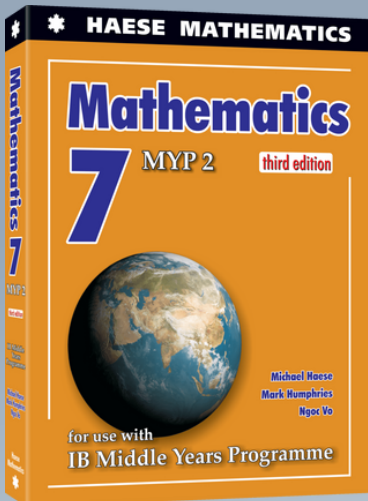


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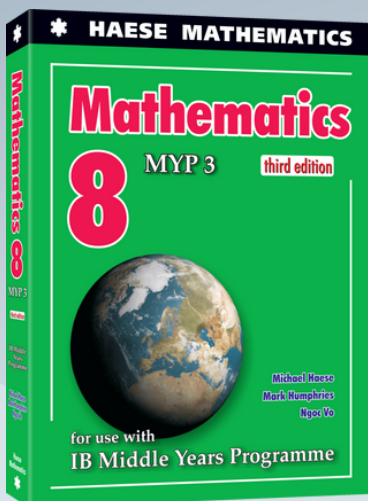


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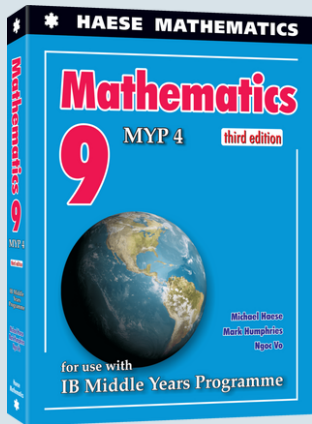
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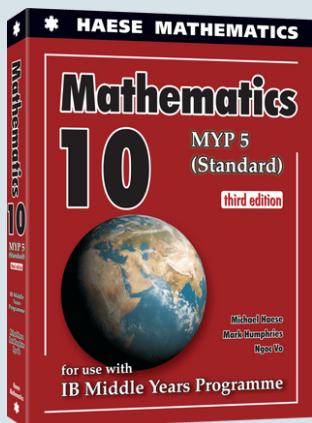


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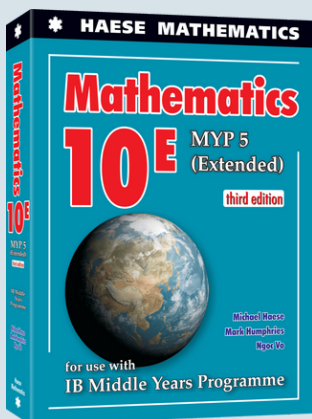


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Example 3
 Self Tutor

Find, correct to 3 significant figures, the measure of the angle marked θ :

a

b

a

$$\sin \theta = \frac{2}{3} \quad \left\{ \sin \theta = \frac{\text{OPP}}{\text{HYP}} \right\}$$

$$\therefore \theta = \sin^{-1}\left(\frac{2}{3}\right)$$

$$\therefore \theta \approx 41.8^\circ \quad \left\{ \text{using technology} \right\}$$

b

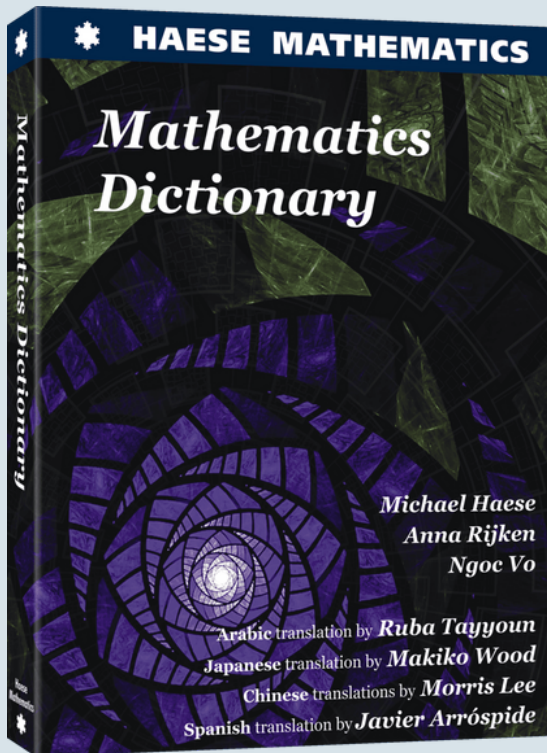
$$\tan \theta = \frac{10}{7} \quad \left\{ \tan \theta = \frac{\text{OPP}}{\text{ADJ}} \right\}$$

$$\therefore \theta = \tan^{-1}\left(\frac{10}{7}\right)$$

$$\therefore \theta \approx 55.0^\circ \quad \left\{ \text{using technology} \right\}$$

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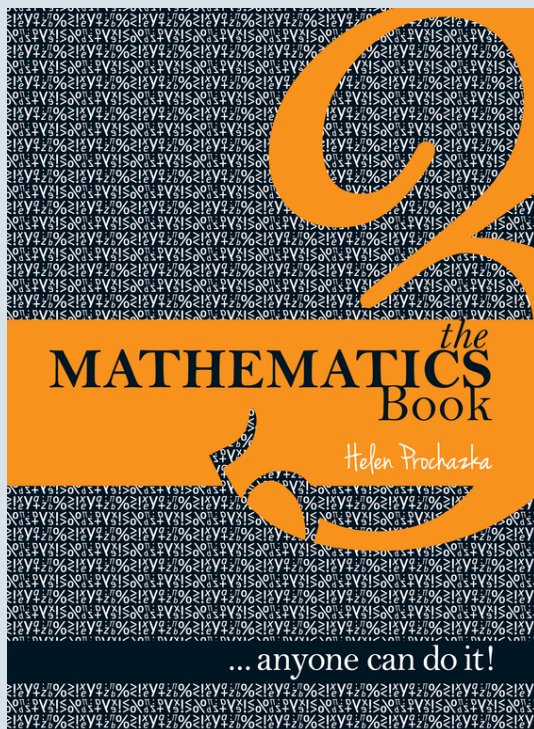


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