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| **Topic/Skill** | **Definition/Tips** | **Example**  **Topic: Trigonometry** |
| 1. Exact Values for Angles in Trigonometry | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | **0°** | **30°** | **45°** | **60°** | **90°** | | **sin** | **0** |  |  |  | **1** | | **cos** | **1** |  |  |  | **0** | | **tan** | **0** |  | **1** |  | **----** | |  |
| 2. Sine Rule | Use with **non right angle triangles**.  Use when the question involves **2 sides and 2 angles**.  For missing side:  For missing angle:  There is an **ambiguous case** (where there are two potential answers)    To find the two angles, use **sine** to find one, and then **subtract your answer from 180** to find the other answer. |  |
| 3. Cosine Rule | Use with **non right angle triangles**.  Use when the question involves **3 sides and 1 angle**.  For missing side:  For missing angle: |  |
| 4. Graphs of Trigonometric Functions |  |  |
| 5. Area of a Triangle | Use when given the **length of two sides and the included angle**. | trig area example |

**Knowledge Organiser**