 

Sort It Out…

**Trigonometric Graphs**

Sort these properties of trigonometric graphs into each of the categories – $y=\sin(x), $ $ y=\cos(x)$ or $y=\tan(x).$ Some properties may apply to more than one graph, and some may apply to none.

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| --- | --- | --- | --- | --- | --- |
| **1** | Passes through $(0, 0)$ | **2** | Graph repeats itself every $360°$ | **3** | Has a maximum $y$-value of $1$ |
| **4** | Symmetrical about the $y$-axis | **5** | Passes through $(0, 1)$ | **6** | Symmetrical about the $x$-axis |
| **7** | Has rotational symmetry order 2 about origin | **8** | Has an asymptote at $x=90°$ | **9** | Has a minimum $y$-value of $-1$ |
| **10** | Passes through $(0, -1)$ | **11** | Symmetrical about the line $x=180°$ | **12** | Passes through $(360, 0)$ |
| **13** | Has an asymptote at $x=180°$ | **14** | Graphs repeats itself every $180°$ | **15** | Has rotational symmetry order 2 about $(90, 0)$ |

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | $$y=\sin(x)$$ | **B** | $$y=\cos(x)$$ |
|  |  |
| **C** | $$y=\tan(x)$$ | **D** | $$None of them$$ |
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