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.

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**	$y = \cos x$

A ($y = \sin x$): 1, 2, 3, 7, 9, 12

B ($y = \cos x$): 2, 3, 4, 5, 9, 11, 15

C ($y = \tan x$): 1, 2, 7, 8, 12, 14, 15

D (*None of them*): 6, 10, 13