Answer on Question #73839 – Math – Trigonometry

Given: $y = x^2 \cos(x)$

To Find: Find the graph of $y = x^2 \cos(x)$

Solution: The given function is $y = x^2 \cos(x)$

$\because$ $y(-x) = (-x)^2 \cos(-x)$

$\Rightarrow$ $y(-x) = x^2 \cos x = y(x)$

$\therefore$ The given function is an even function and symmetric about y-axis.

x	0	$\pi/2$	π	$3\pi/2$	2π	$5\pi/2$	3π
y	0	0	-9.875	0	39.5	0	-88.875

Now draw the graph for the values of positive x and take a reflection about y-axis.