

## Answer on Question #77626 – Math – Calculus

### Question

Find lcm of following:

- 1)  $\pi$  and  $2\pi$
- 2)  $3\pi/4$  and  $5\pi/4$

### Solution

- 1) Multiples of  $\pi$ :  $\pi, 2\pi, 3\pi, \dots$

Multiples of  $2\pi$ :  $2\pi, 4\pi, 6\pi, \dots$

The first common value:  $2\pi$ .

So, lcm of  $\pi$  and  $2\pi$  is  $2\pi$ .

- 2) Multiples of  $\frac{3\pi}{4}$ :  $\frac{3\pi}{4}, \frac{6\pi}{4}, \frac{9\pi}{4}, \frac{12\pi}{4}, \frac{15\pi}{4}, \dots$

Multiples of  $\frac{5\pi}{4}$ :  $\frac{5\pi}{4}, \frac{10\pi}{4}, \frac{15\pi}{4}, \dots$

The first common value:  $\frac{15\pi}{4}$ .

So, lcm of  $\frac{3\pi}{4}$  and  $\frac{5\pi}{4}$  is  $\frac{15\pi}{4}$ .

**Answer:** 1)  $2\pi$ ; 2)  $\frac{15\pi}{4}$ .