

## KRAADIMÕÖT JA RADIAANMÕÖT- näited

$$180^\circ = \pi \text{ rad}$$

$$1^\circ = \frac{\pi}{180} \text{ rad}$$

$$1 \text{ rad} = \frac{180^\circ}{\pi}$$

### Näide 1

1)  $36^\circ = \frac{36\pi}{180} \text{ rad} \approx 0,6283 \text{ rad}$ ; Jätta 4 kohta peale koma!

2)  $36^\circ 10' = \frac{36,1666\pi}{180} \text{ rad} \approx 0,6312 \text{ rad}$ ;

3)  $-75^\circ = \frac{-75\pi}{180} \text{ rad} \approx -1,309 \text{ rad}$ ;

4)  $-66^\circ 12' = \frac{-66,2\pi}{180} \text{ rad} \approx -1,1554 \text{ rad}$ .

### Näide 2

1)  $12^\circ = \frac{12\pi}{180} = \frac{\pi}{15}$ ;

2)  $75^\circ = \frac{75\pi}{180} = \frac{15\pi}{36} = \frac{5}{12}\pi$ .

### Näide 3

1)  $2\pi = 180^\circ$ ;

1)  $\frac{3\pi}{2} = \frac{3 \cdot 180^\circ}{2} = 270^\circ$ ;

2)  $\frac{3\pi}{4} = \frac{3 \cdot 180^\circ}{4} = 135^\circ$ ;

3)  $\frac{2\pi}{15} = \frac{2 \cdot 180^\circ}{15} = 24^\circ$ .

### Näide 4

1)  $2 \text{ rad} = \frac{2 \cdot 180^\circ}{\pi} = \frac{360^\circ}{\pi} = 114^\circ 35' 30''$ ;

2)  $0,75 \text{ rad} = \frac{0,75 \cdot 180^\circ}{\pi} = 42^\circ 58' 19''$ .

### Näide 5

1)  $\sin \frac{\pi}{6} = \sin \frac{180^\circ}{6} = \sin 30^\circ = 0,5$ ;

2)  $\cos \frac{\pi}{3} = \cos \frac{180^\circ}{3} = \cos 60^\circ = 0,5$ ;

3)  $\sin \frac{\pi}{10} = \sin \frac{180^\circ}{10} = \sin 18^\circ = 0,3090$ ;

4)  $\sin 1,5 = \sin \frac{1,5 \cdot 180^\circ}{\pi} = \sin 85,94^\circ = 0,9975$ ;

5)  $\cos 0,01 = \cos \frac{0,01 \cdot 180^\circ}{\pi} = \cos 0,57^\circ \approx 1$ .