

$$\text{Nr. 3} \quad \frac{2\tilde{\pi}}{5} \hat{=} 72^\circ ; \quad \frac{10}{9}\tilde{\pi} \hat{=} 200^\circ ; \quad \frac{5}{3}\tilde{\pi} \hat{=} 300^\circ$$

$$\frac{3}{4}\tilde{\pi} \hat{=} 135^\circ ; \quad \frac{3}{2}\tilde{\pi} \hat{=} 270^\circ$$


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$$\text{Nr. 4} \quad \text{a) } \sin\left(\frac{3}{2}\tilde{\pi}\right) = \sin(270^\circ) = -1$$

$$\text{b) } \sin\left(-\frac{\tilde{\pi}}{2}\right) = \sin(-90^\circ) = -1$$

$$\text{c) } \sin(5\tilde{\pi}) = \sin(4\tilde{\pi} + \tilde{\pi}) = \sin(180^\circ) = 0$$

$$\text{d) } \sin\left(-\frac{7}{2}\tilde{\pi}\right) = \sin\left(-2\tilde{\pi} - \frac{3}{2}\tilde{\pi}\right) = \sin(90^\circ) = 1$$

$$\text{e) } \cos\left(\frac{\tilde{\pi}}{2}\right) = \cos(90^\circ) = 0$$

$$\text{f) } \cos(-\tilde{\pi}) = \cos(-180^\circ) = -1$$

$$\text{g) } \cos(8\tilde{\pi}) = \cos(4 \cdot 2\tilde{\pi}) = \cos(0^\circ) = 1$$

$$\text{h) } \cos(-5\tilde{\pi}) = \cos(-4\tilde{\pi} - \tilde{\pi}) = \cos(180^\circ) = -1$$


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$$\text{Nr. 5} \quad \text{a) } \sin(3,2\tilde{\pi}) = -0,588$$

$$\text{b) } \sin(4) = -0,757$$

$$\text{c) } \sin\left(-\frac{8\tilde{\pi}}{5}\right) = 0,951$$

$$\text{d) } \sin(-15) = -0,650$$

$$\text{e) } \cos(-3) = -0,990$$

$$\text{f) } \cos(-1,5\tilde{\pi}) = 0$$

$$\text{g) } \cos(13) = 0,907$$

$$\text{h) } \cos\left(\frac{7\tilde{\pi}}{15}\right) = 0,105$$