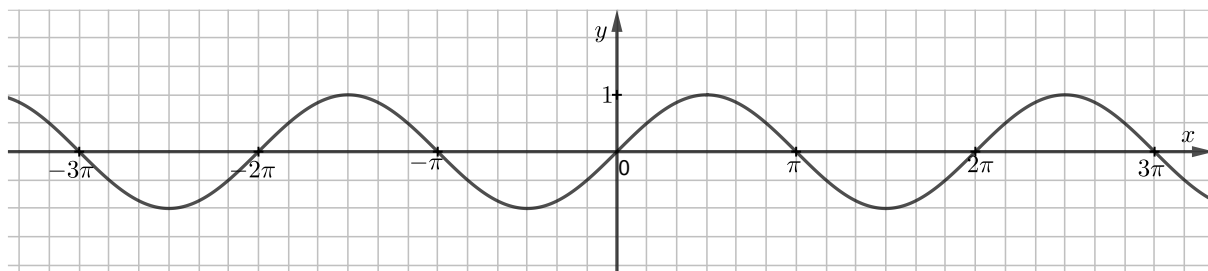


Rozwiązania

$$(1.1) \sin(x) = \frac{1}{2}$$

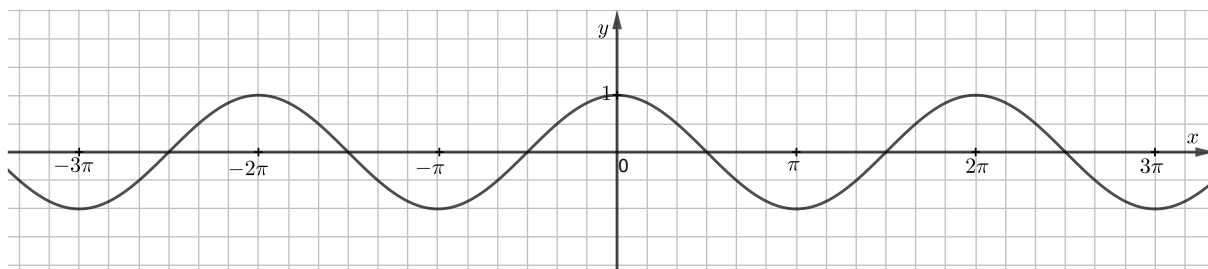
$$x \in \mathbb{R}$$



$$x = \frac{\pi}{6} + k \cdot 2\pi \text{ lub } x = \frac{5\pi}{6} + k \cdot 2\pi \text{ gdzie } k \in \mathbb{Z}$$

$$(1.2) \cos(x) = \frac{\sqrt{2}}{2}$$

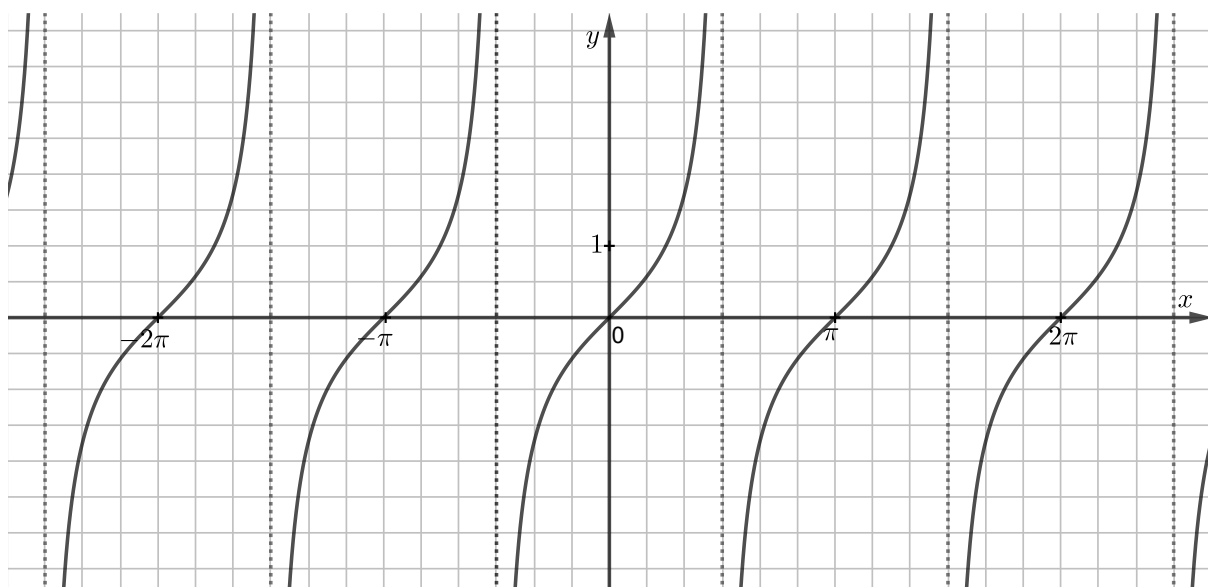
$$x \in [-\pi, 2\pi]$$



$$x \in \left\{ -\frac{\pi}{4}, \frac{\pi}{4}, \frac{7\pi}{4} \right\}$$

$$(1.3) \operatorname{tg}^2(x) = 3$$

$$x \in \left(-\frac{\pi}{2}, \frac{\pi}{2} \right)$$

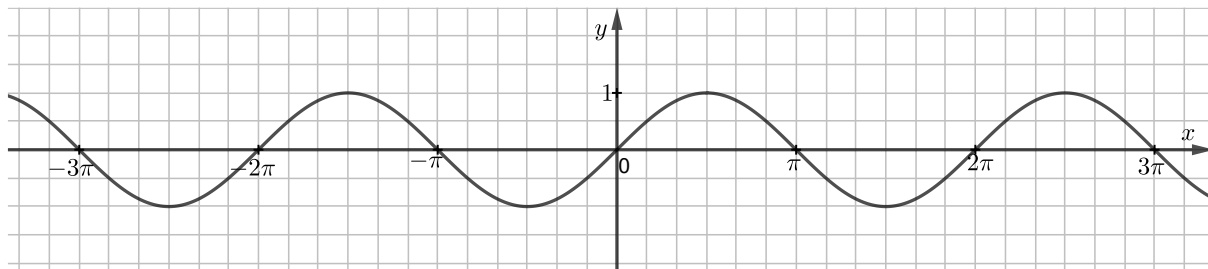


$$x \in \left\{ -\frac{\pi}{3}, \frac{\pi}{3} \right\}$$

Rozwiązania

$$(2.1) \sin^2(x) = \frac{3}{4}$$

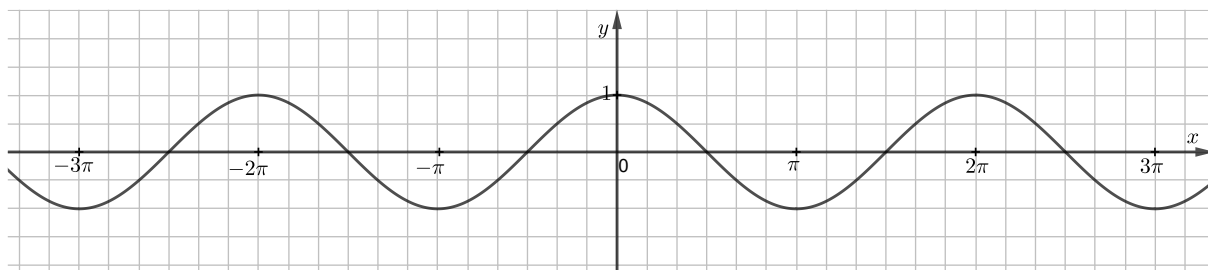
$$x \in [-\pi, \pi]$$



$$x \in \left\{ -\frac{2\pi}{3}, -\frac{\pi}{3}, \frac{\pi}{3}, \frac{2\pi}{3} \right\}$$

$$(2.1) \cos(x) = \frac{\sqrt{3}}{2}$$

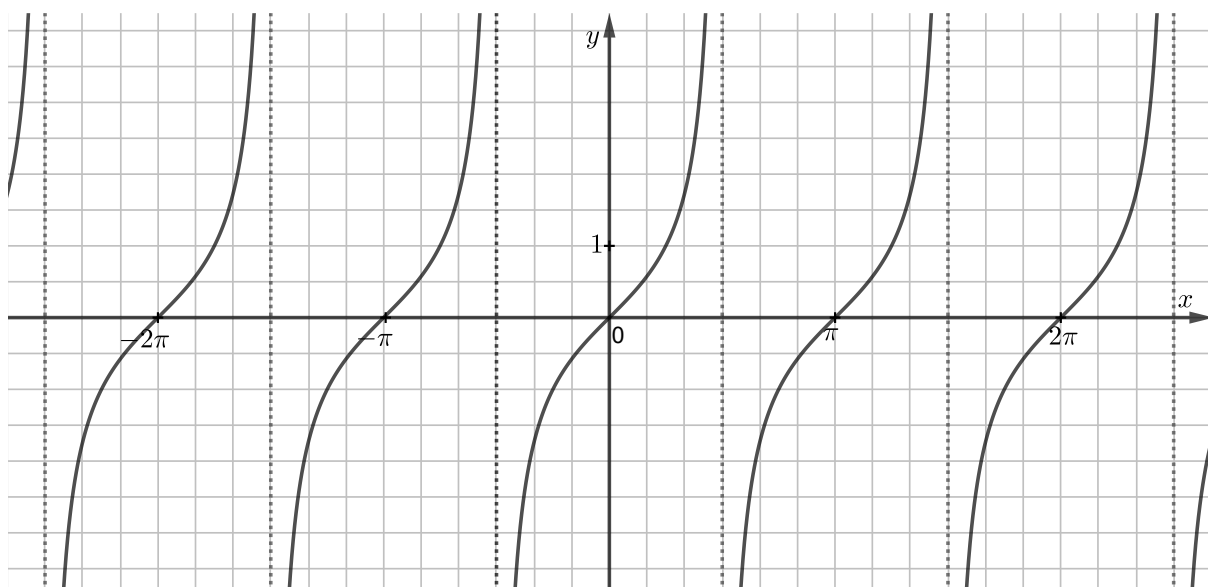
$$x \in \mathbb{R}$$



$$x = \frac{\pi}{6} + k \cdot 2\pi \text{ lub } x = \frac{5\pi}{6} + k \cdot 2\pi \text{ gdzie } k \in \mathbb{Z}$$

$$(2.3) \operatorname{tg}(x) = 1$$

$$x \in \left(-\frac{\pi}{2}, \frac{\pi}{2} \right)$$

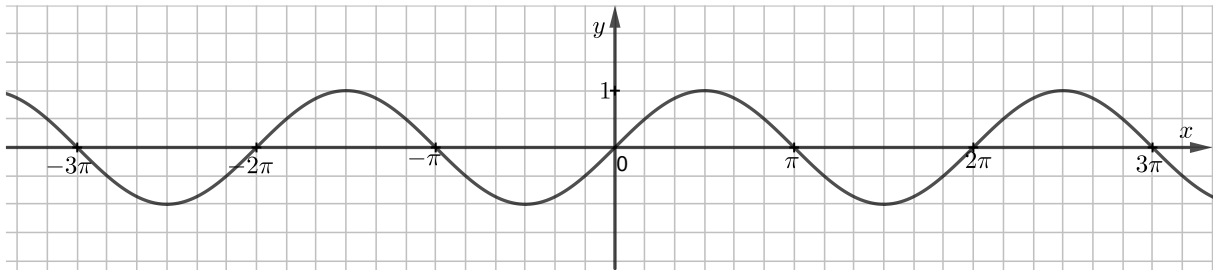


$$x = \frac{\pi}{4}$$

Rozwiązania

$$(3.1) \sin(x) = \frac{\sqrt{3}}{2}$$

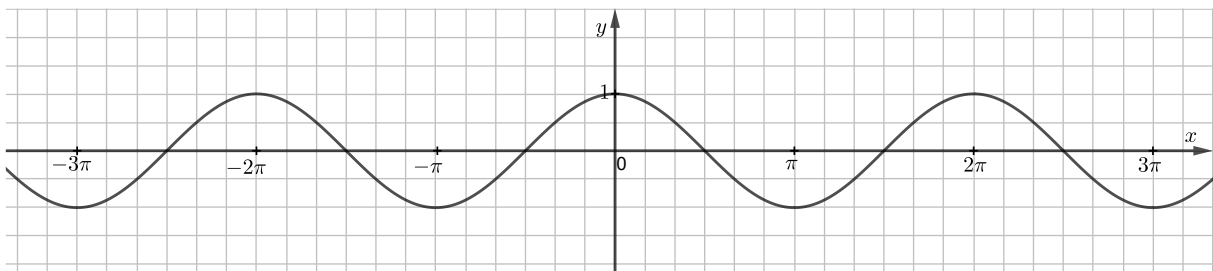
$$x \in [0, 2\pi]$$



$$x \in \left\{ \frac{\pi}{3}, \frac{2\pi}{3} \right\}$$

$$(3.2) |\cos(x)| = \frac{\sqrt{2}}{2}$$

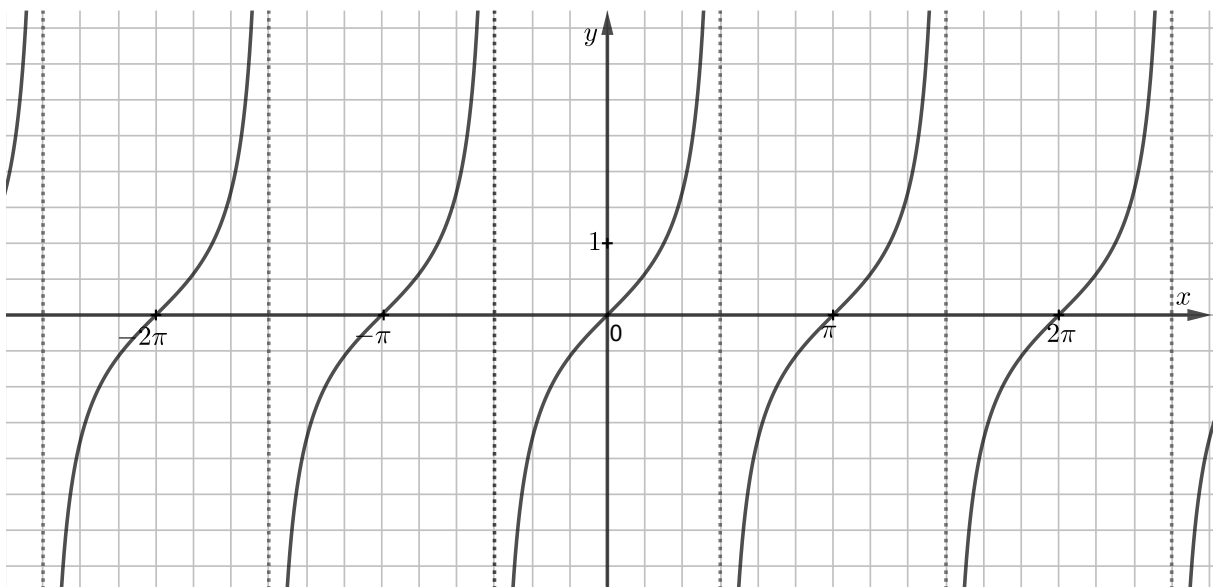
$$x \in \mathbb{R}$$



$$x = \frac{\pi}{4} + k \cdot \pi \text{ lub } x = \frac{3\pi}{4} + k \cdot \pi \text{ gdzie } k \in \mathbb{Z}$$

$$(3.3) \operatorname{tg}(x) = \frac{\sqrt{3}}{3}$$

$$x \in \left(-\frac{\pi}{2}, \frac{\pi}{2} \right)$$

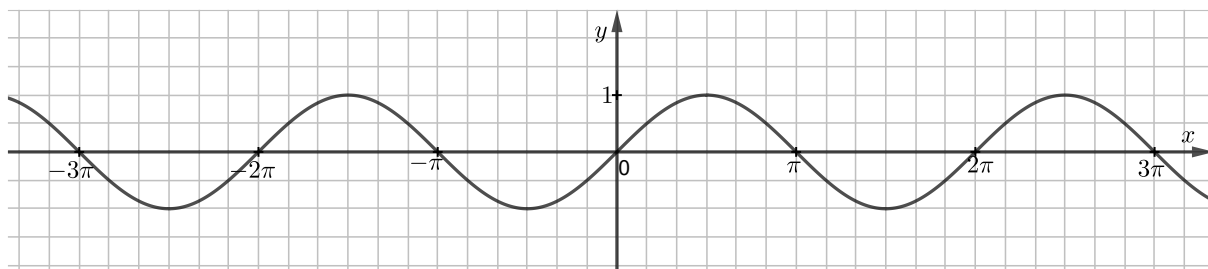


$$x = \frac{\pi}{6}$$

Rozwiązania

$$(4.1) \sin(x) = -1$$

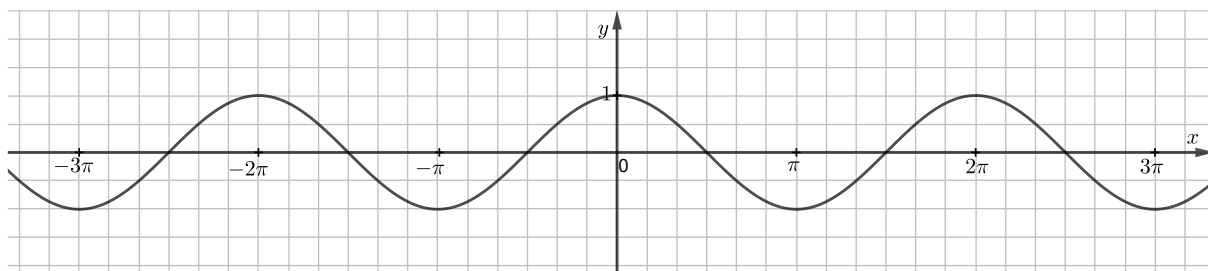
$$x \in R$$



$$x = \frac{3\pi}{2} + k \cdot 2\pi$$

$$(4.2) \cos^2(x) = \frac{1}{2}$$

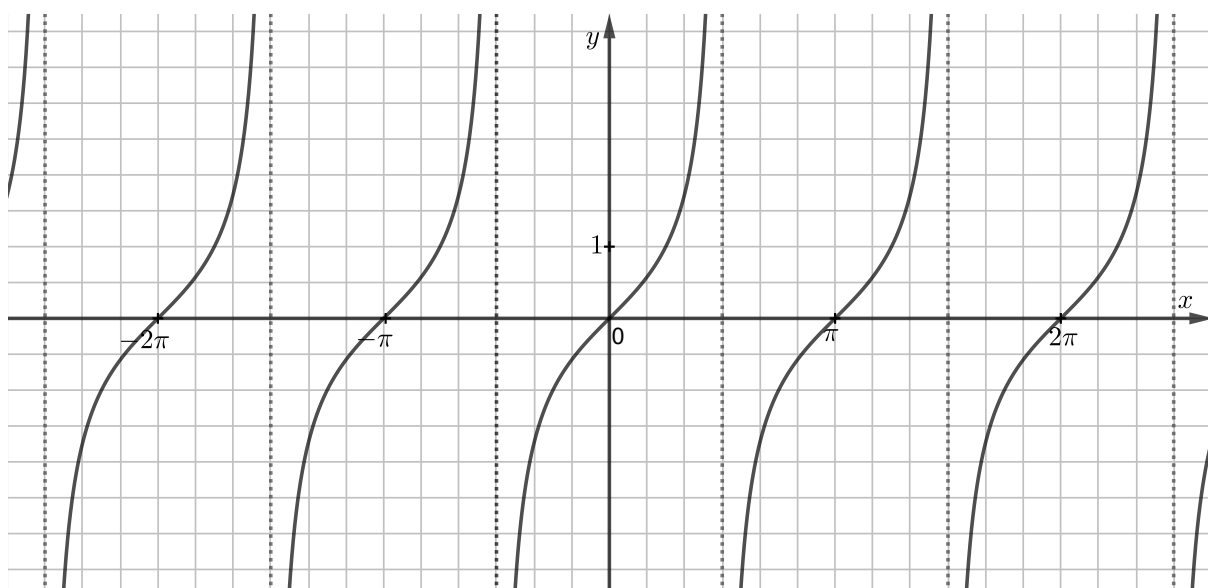
$$x \in [-\pi, \pi]$$



$$x \in \left\{ -\frac{3\pi}{4}, -\frac{\pi}{4}, \frac{\pi}{4}, \frac{3\pi}{4} \right\}$$

$$(4.3) |\operatorname{tg}(x)| = \frac{\sqrt{3}}{3}$$

$$x \in R$$



$$x = -\frac{\pi}{6} + k \cdot \pi \text{ lub } x = \frac{\pi}{6} + k \cdot \pi \text{ gdzie } k \in Z$$