

$$\frac{3.95}{5} \quad y = \frac{-\sin 2x + 2 \cos\left(\frac{7\pi}{6} + 2x\right)}{-2 \cos\left(\frac{7\pi}{6} - 2x\right) + \sqrt{3} \cos 2x}$$

$$\begin{array}{l} \text{für } \downarrow \\ -\cos 2 = \cos(2 + \pi) \end{array}$$

$$-2 \cos\left(\frac{7\pi}{6} - 2x\right) - \sqrt{3} \cos 2x \neq 0$$

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$$-2 \cos\left(\frac{7\pi}{6}\right) \cos 2x - 2 \sin\left(\frac{7\pi}{6}\right) \sin 2x - \sqrt{3} \cos 2x \neq 0$$

$$+ \sqrt{3} \cos 2x + \sin 2x - \sqrt{3} \cos 2x \neq 0$$

$$\sin 2x \neq 0$$

$$2x \neq \pi k$$

$$x = \frac{\pi k}{2}$$

$$\cancel{1} > \frac{-\sin 2x + 2 \cos\left(\frac{7\pi}{6} + 2x\right)}{\sin 2x} = \cancel{1} + \frac{2 \cos\left(\frac{7\pi}{6}\right) \cos 2x + 2 \sin\left(\frac{7\pi}{6}\right) \sin 2x}{\sin 2x}$$

$$0 > -\sqrt{3} \cos 2x + 1$$

$$\cos 2x > \frac{1}{\sqrt{3}}$$

$$0 < 2x < \frac{\pi}{3} \rightarrow$$

$$\boxed{0 < x < \frac{\pi}{6}}$$

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