Determina il campo di esistenza

633 $y = \sqrt{\dfrac{\sin x}{1 - \cos x}}$

634 $y = \sqrt{\dfrac{\cos x - 1}{\sin x - 1}}$

635 $y = \sqrt{\cos^2 x - \cos x + 1}$

636 $y = \dfrac{1}{\sqrt{2 \sin x + 1}}$

637 $y = 1 - \sqrt{\tan x - 1}$

638 $y = \sqrt{\tan x - \sin x}$

639 $y = \dfrac{1}{\sqrt{1 - \sin x}}$

640 $y = \dfrac{\cos x}{\sqrt{1 + \sin^2 x}}$

Determina il campo di esistenza delle seguenti funzioni.

$$y = \sqrt{\dfrac{\sin x}{1 - \cos x}} \qquad\qquad [2k\pi < x \le \pi + 2k\pi]$$

$$y = \sqrt{\dfrac{\cos x - 1}{\sin x - 1}} \qquad\qquad \left[R - \left\{\dfrac{\pi}{2} + 2k\pi\right\}\right]$$

$$y = \sqrt{\cos^2 x - \cos x + 1} \qquad\qquad [R]$$

$$y = \dfrac{1}{\sqrt{2 \sin x + 1}} \qquad\qquad \left[2k\pi \le x < \dfrac{7}{6}\pi + 2k\pi \ \lor \ \dfrac{11}{6}\pi + 2k\pi < x \le 2\pi + 2k\pi\right]$$

$$y = 1 - \sqrt{\tan x - 1} \qquad\qquad \left[\dfrac{\pi}{4} + k\pi \le x < \dfrac{\pi}{2} + k\pi\right]$$

$$y = \sqrt{\tan x - \sin x} \qquad\qquad \left[k\pi \le x < \dfrac{\pi}{2} + k\pi\right]$$

$$y = \dfrac{1}{\sqrt{1 - \sin x}} \qquad\qquad \left[\forall \, x \ne \dfrac{\pi}{2} + 2k\pi\right]$$

$$y = \dfrac{\cos x}{\sqrt{1 + \sin^2 x}} \qquad\qquad [R]$$