Zadatak 68. Grafički prikaži skup točaka ravnine određen jednadžbom $y = \sqrt{|1-x|}$.

Rješenje.

$$y = \sqrt{|1-x|}$$

$$y = \begin{cases} \sqrt{1-x}, & 1-x \geqslant 0,\ x \leqslant 1 \\ \sqrt{x-1}, & 1-x \leqslant 0,\ x \geqslant 1 \end{cases}$$

1) $1-x \geqslant 0,\ x \leqslant 1$

$P_1 \ \ldots\ y = \sqrt{1-x} \implies y \geqslant 0$

$y = \sqrt{1-x} \quad /^2$

$y^2 = 1-x$

$y^2 = -(x-1) \implies T(1,0),\ p = -\frac{1}{2},\ F\left(1-\frac{1}{4},0\right),\ F\left(\frac{3}{4},0\right)$

2) $1-x \geqslant 0,\ x \leqslant 1$

$P_2 \ \ldots\ y = \sqrt{x-1} \implies y \geqslant 0$

$y = \sqrt{x-1} \quad /^2$

$y^2 = x-1 \implies T(1,0),\ p = \frac{1}{2},\ F\left(1+\frac{1}{4},0\right),\ F\left(\frac{5}{4},0\right)$