Zadatak 67. Grafički prikaži skup točaka ravnine zadanih jednadžbom:

1) $y=\sqrt{1-x}$; **2)** $y=1-\sqrt{x+2}$;

3) $y=\sqrt{3-x}-1$.

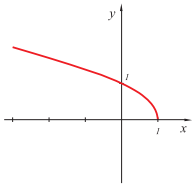
Rješenje. **1)**

$y=\sqrt{1-x} \implies y\geqslant 0,\quad 1-x\geqslant 0,\ x\leqslant 1$

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

$y^2=1-x$

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



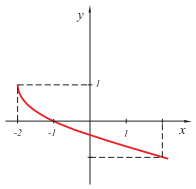
2)

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

$y-1=-\sqrt{x+2} \implies y-1\leqslant 0, y\leqslant 1 \quad x+2\geqslant 0,\ x\geqslant -2$

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

$(y-1)^2=x+2 \implies T(-2,1),\ p=\frac{1}{2},\ F\left(-2-\frac{1}{4},1\right),\ F\left(-\frac{9}{4},1\right)$



3)

$y=\sqrt{3-x}-1$

$y+1=\sqrt{3-x} \implies y+1\geqslant 0, y\geqslant -1 \quad 3-x\geqslant 0,\ x\leqslant 3$

$y+1=\sqrt{3-x} \quad /^2$

$(y+1)^2=-(x-3) \implies T(3,-1),\ p=-\frac{1}{2},\ F\left(3-\frac{1}{4},-1\right),\ F\left(\frac{11}{4},-1\right)$