

найти область определения ф-ии

$$y = \sqrt{2\sin x - 1} + \sqrt{7x - x^2}$$

$$2\sin x - 1 \geq 0$$

$$\sin x \geq \frac{1}{2}$$

$$x \in [\frac{\pi}{6} + 2\pi k; \frac{5\pi}{6} + 2\pi k]$$

$$x(7-x) \geq 0$$

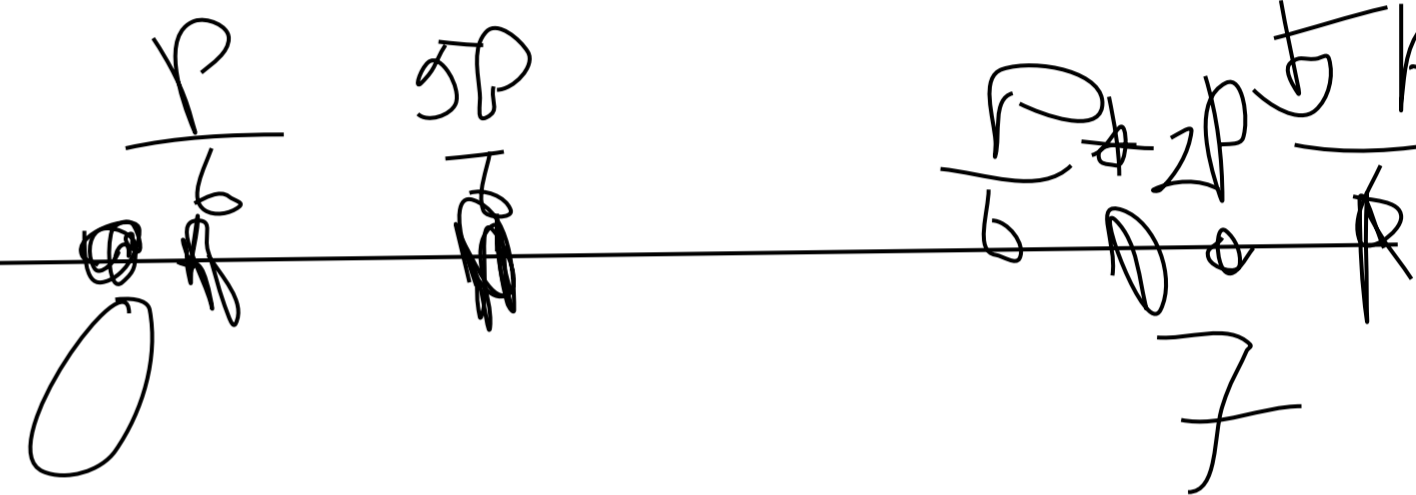
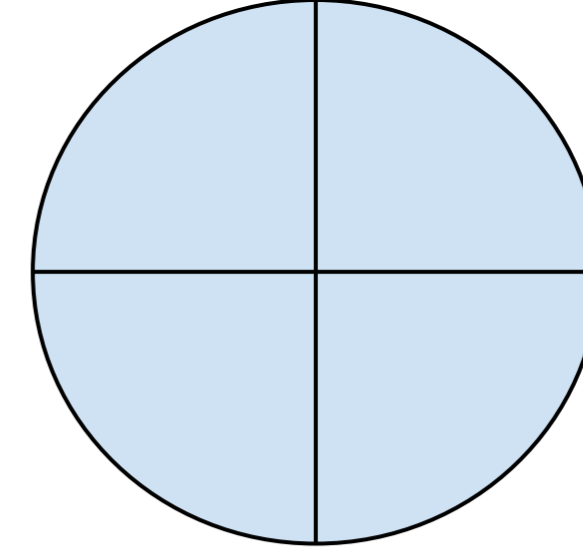
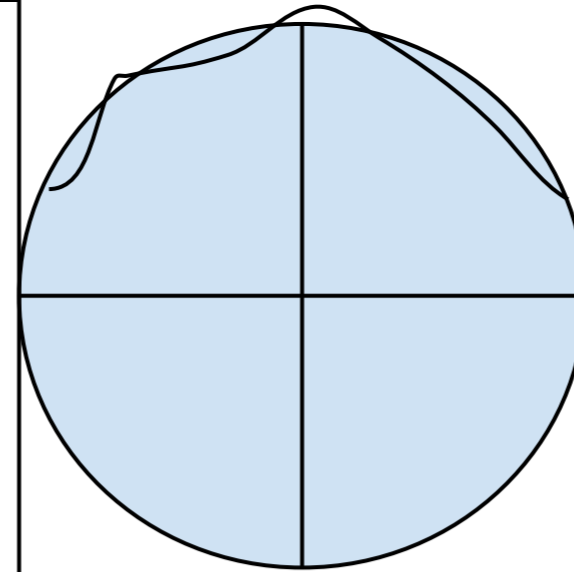
$$x \in [0; 7]$$

$$5\frac{\pi}{6} + 2\pi k \leq 7$$

$$2\pi k \leq 7 - 5\frac{\pi}{6}$$

$$k \leq \frac{7 - 5\pi/6}{2\pi}$$

Ответ  $x \in [\frac{\pi}{6}; \frac{5\pi}{6}] \cup [\frac{\pi}{6} + 2\pi; 7]$



**НАЙТИ ОБЛАСТЬ  
ОПРЕДЕЛЕНИЯ  
ТРИГОНОМЕТРИЧЕСКОЙ  
ФУНКЦИИ**

$$y = \sqrt{2\sin x - 1} + \sqrt{7x - x^2}$$