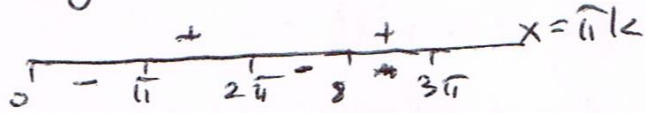


2.83  
 25

$$(\log_2 x - 3) \sin x > \sqrt{1 - 9^2 x}$$

$0 < x$  ב: הדרך הנכונה  
 וזו הדרך הנכונה

$$\log_2 x = 3 \rightarrow x = 8 \quad \sin x = 0$$



$$\boxed{\pi < x < 2\pi \quad 8 < x < 3\pi}$$

$$\boxed{4\pi + 2\pi k < x < 5\pi + 2\pi k}$$

$$(\log_2 x - 3) \sin x > \sqrt{1 - 9^2 x} \quad / ( )^2$$

$$(\log_2 x - 3)^2 \sin^2 x > 1 - 9^2 x$$

$$(\log_2 x - 3)^2 \sin^2 x > \sin^2 x$$

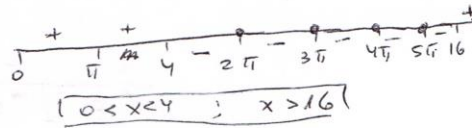
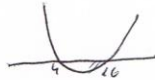
$$[(\log_2 x - 3)^2 - 1] \sin^2 x > 0$$

$\sin^2 x > 0 \rightarrow x = \pi k$

$$\log_2^2 x - 6 \log_2 x + 8 = 0$$

$$\log_2 x = 2 \rightarrow x = 4$$

$$\log_2 x = 4 \rightarrow x = 16$$



$$\boxed{\pi < x < 4}$$

$$\boxed{4\pi + 2\pi k < x < 5\pi + 2\pi k}$$

הדרך הנכונה היא...