

0.9
4

$$x\sqrt{1-2x-1} < x^{4x-1}$$

הגדרת הפונקציה

$$(x-1)(4x-1-\sqrt{1-2x-1}) > 0$$

$x=1$

$$4x-1 = \sqrt{1-2x-1}$$

$$4x-1 \geq 0$$

$$x \geq \frac{1}{4}$$

הגדרת הפונקציה

$$16x^2 - 8x + 1 = 1 - 2x - 1$$

$$8x(2x-1) + 12x-1 = 0$$

$$x \leq \frac{1}{2}$$

$$x > \frac{1}{2}$$

$$+ 8x(2x-1) - (2x-1) = 0$$

$$(2x-1)(8x-1) = 0$$

$$x = \frac{1}{2}$$

$$x = \frac{1}{8}$$

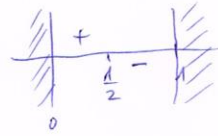
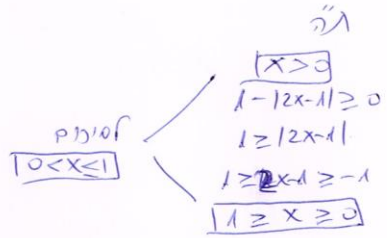
$$8x(2x-1) + (2x-1) = 0$$

$$(8x+1)(2x-1) = 0$$

$$x = \frac{1}{8}$$

$$x = \frac{1}{2}$$

הגדרת הפונקציה



$$0 < x < \frac{1}{2}$$