1.74
ר 2

$$2x^2+6-2\sqrt{2x^2-3x+2} = 3x+3$$

תחום הגדרה : $2x^2-3x+2 \geq 0$

כל x

נחזור למשוואה

$$2x^2-3x+3 = 2\sqrt{2x^2-3x+2}$$

נסמן $2x^2-3x+2 = A$

$$A+1 = 2\sqrt{A} \quad /()^2$$

$$A^2+2A+1 = 4A$$

$$A^2-2A+1 = 0$$

$$(A-1)^2 = 0 \rightarrow A = 1 \rightarrow 2x^2-3x+2 = 1 \rightarrow 2x^2-3x+1 = 0 \rightarrow \boxed{x_1 = 1,\ x_2 = \tfrac{1}{2}}$$