

$$\textcircled{2} \quad 3^{\log_{\frac{1}{2}}(x^2-5x+7)} < 1 = 3^0$$

הצבה פשוטה

$$x < 1 \leftarrow x^2 - 5x + 7 > 0 \quad (\Delta < 0)$$

$$\log_{\frac{1}{2}}(x^2-5x+7) < 0$$

$$x^2 - 5x + 7 > 1$$

$$x^2 - 5x + 6 > 0$$



$$\boxed{\begin{array}{l} x < 2 \\ x > 3 \end{array}}$$