$$f(x) = x^2 - 3x + 7$$

 $x_0 = 1$

$$x^{2} - 3x + 1 = 0$$

$$x^{2} + 1 = 3x$$

$$-9(x) = \frac{x^{2} + 1}{3}$$

$$x_{n+1} = \frac{x_n^2 + 1}{3}$$

$$X_{1} = \frac{1}{3} = \frac{2}{3}$$

$$x_1 = \frac{\left(\frac{2}{3}\right)^{2} + 1}{3} = \frac{4}{9} + 1 = \frac{13}{9 \cdot 3} = \frac{13}{27}$$

$$\psi'(\chi) = \frac{2x}{3}$$

$$\varphi'(1) = \frac{1}{3} < 7$$
 - mēla by konvergovst

$$x_{n+1} = \sqrt{3x_n-1}$$

$$\varphi'(x) = \frac{3}{2\sqrt{3}x-7}$$

X0 = 1

$$x_1 = \sqrt{3.7-7} = \sqrt{2}$$