\[ a = -0.25 \quad x_0 = 0.1 \]

\[ a = -0.8 \quad x_0 = 0.1 \]

\[ a = -1.3 \quad x_0 = 0.1 \]

\[ a = -1.4 \quad x_0 = 0.1 \]

\[ a = -1.76 \quad x_0 = 0.1 \]