```
>
> # Define the iteration function f(x)
  f := x -> evalf(
    x - (
      (289*x^4 - 1938*x^3 + 1464*x^2 + 4642*x + 1815)
     * (1156*x^3 - 5814*x^2 + 2928*x + 4642)
    ) / (
      (1156*x^3 - 5814*x^2 + 2928*x + 4642)^2
    - (289*x^4 - 1938*x^3 + 1464*x^2 + 4642*x + 1815)
     * (3468*x^2 - 11628*x + 2928)
    )
  );

  # Starting value
  x0 := 0.8;

  # Iterate 4 times
  x1 := f(x0);
  x2 := f(x1);
  x3 := f(x2);
  x4 := f(x3);

  # Print results
  x1, x2, x3, x4;
```

$$f := x \mapsto evalf\left(x - \left(\left(289\cdot x^4 - 1938\cdot x^3 + 1464\cdot x^2 + 4642\cdot x + 1815\right)\cdot\left(1156\cdot x^3 - 5814\cdot x^2 + 2928\cdot x + 4642\right)\right) \Big/ \left(\left(1156\cdot x^3 - 5814\cdot x^2 + 2928\cdot x + 4642\right)^2 - \left(289\cdot x^4 - 1938\cdot x^3 + 1464\cdot x^2 + 4642\cdot x + 1815\right)\cdot\left(3468\cdot x^2 - 11628\cdot x + 2928\right)\right)\right)$$

$$x0 := 0.8$$

$$x1 := 0.23412533934291682564430548960 1$$

$$x2 := -0.38333625261682585586805526448 1$$

$$x3 := -0.62927858900611480515249142595 3$$

$$x4 := -0.64698688934064845019936745191 2$$

$$0.23412533934291682564430548960 1, -0.38333625261682585586805526448 1, -0.62927858900611480515249142595 3, -0.64698688934064845019936745191 2 \quad \textbf{(1)}$$

```
> (: Done
```