> $f := (x, i) \rightarrow 10 \cdot x^{i+1} - 7 \cdot (i+1) + 10$

$$f := (x, i) \rightarrow 10\, x^{i+1} - 7\, i + 3 \quad \textbf{(1)}$$

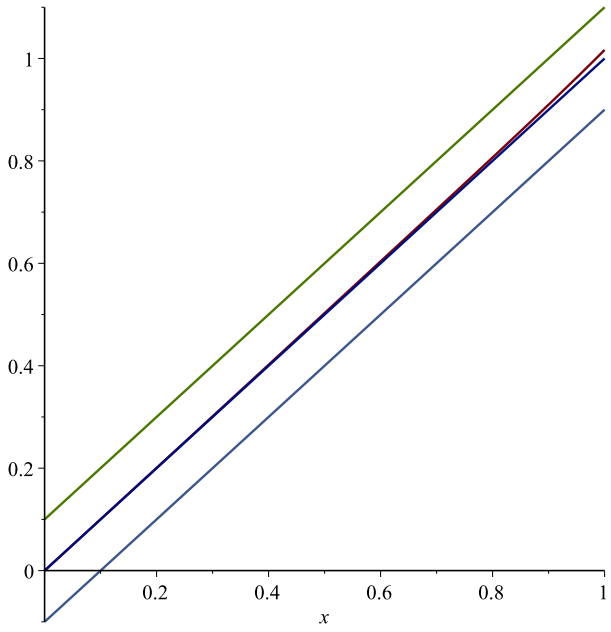
> **for** j **from** 1 **to** 2 **do** $print(n = j, evalb(f(1, j) < 0))$ **end do**:

$$n = 1, \mathit{false}$$
$$n = 2, \mathit{true} \quad \textbf{(2)}$$

> $Sn := (x, n) \rightarrow \sum_{k=2}^{n} \frac{(-x)^k}{7 \cdot n - 10} + x$

$$Sn := (x, n) \rightarrow \sum_{k=2}^{n} \frac{(-x)^k}{7\, n - 10} + x \quad \textbf{(3)}$$

> $plot([Sn(x, 10), Sn(x, infinity), Sn(x, infinity) + 0.1, Sn(x, infinity) - 0.1], x = 0..1)$



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