

$$S3[x_] = \sum_{n=1}^3 ((-1)^n * x^n)$$

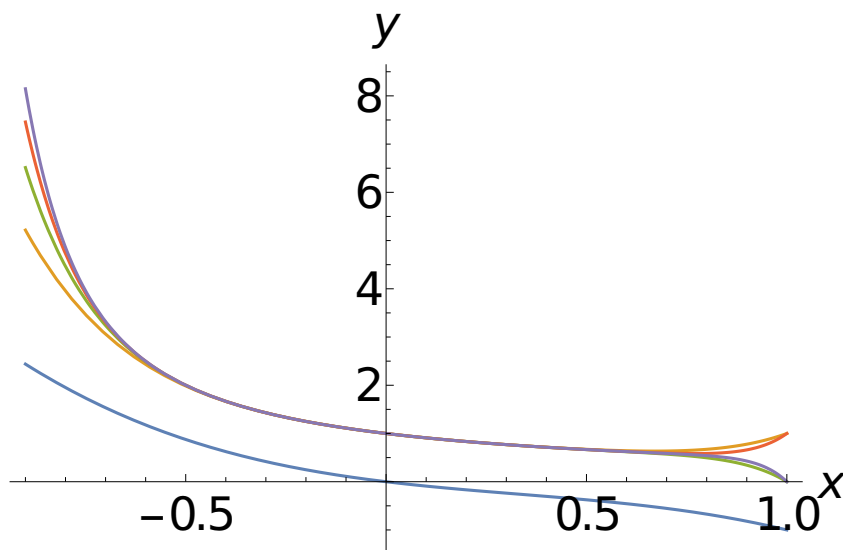
$$S6[x_] = \sum_{n=0}^6 ((-1)^n * x^n)$$

$$S9[x_] = \sum_{n=0}^9 ((-1)^n * x^n)$$

$$S12[x_] = \sum_{n=0}^{12} ((-1)^n * x^n)$$

$$S15[x_] = \sum_{n=0}^{15} ((-1)^n * x^n)$$

```
Plot[{S3[x], S6[x], S9[x], S12[x], S15[x]}, {x, -0.9, 1},
  AxesLabel -> {x, y}, LabelStyle -> Large, PlotRange -> Full]
```



```
Plot[{ $\frac{1}{x+1}$ }, {x, -0.9, 1},  
  AxesLabel -> {x, y}, LabelStyle -> Large, PlotRange -> Full]
```

