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> # Gibbs Phenomenon for Fourier Integral Representation
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```
> S:=(x,v)->(1/Pi)*(Si(v+v*x)+Si(v-v*x));
```

$$S := (x, v) \rightarrow \frac{\text{Si}(v + vx) + \text{Si}(v - vx)}{\pi}$$

(1)

```
> # make an animation of Gibbs overshoot
```

```
> plots[animate]( plot, [S(x,v), x=-1.5..1.5],v=20..40);
```

