s_pi_limiter_2 (subcircuit)

Attributes

```
inputs: x
outputs: y
e_left_nodes:
e_right_nodes:
e_top_nodes:
e_bottom_nodes:
parameters:
    k: 1
    tau: 1
    xmax: 10
    xmin: -10
    y20: 0
```

Description

s_pi_limiter_2 is a PI controller which satisfies the following equations.

$$y_1 = k x,$$

$$y_2 = \frac{k}{\tau} \int x dt,$$

$$y = y_1 + y_2.$$

Each of y_2 and y is limited to the range xmin to xmax.