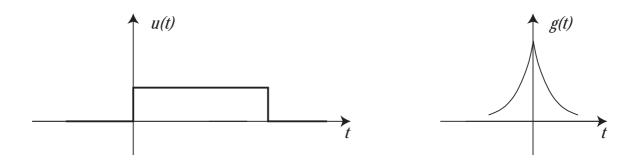
Response of Smoother to Pulse

A pulse, u(t), is the input to a smoother, with impulse response g(t).



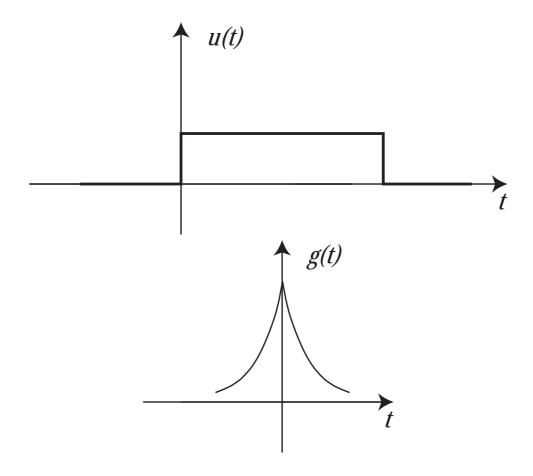
Sketch the output, y(t).

My confidence that I have the correct answer is:

- 1. 100%
- 2. 80%
- 3. 60%
- 4. 40%
- 5. 20%
- 6.0%

Response of Smoother to Pulse

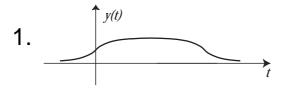
A pulse, u(t), is the input to a smoother, with impulse response g(t).

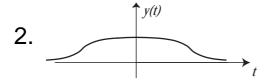


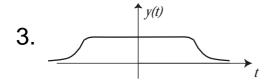
Sketch the output, y(t).

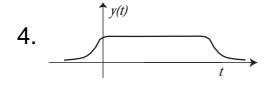
Response of Smoother to Pulse

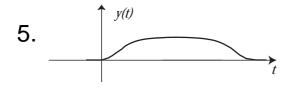
My answer looks most like:

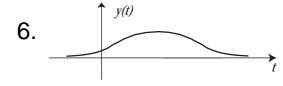












- 7. Some combination of the above
- 8. None of the above

Response to Bilateral Signal

A system *G* has impulse response

$$g(t) = e^{-at}\sigma(t)$$

with a>0. Find the response, y(t), of the system to the input

$$u(t) = e^{at}\sigma(-t)$$

using Laplace transform methods.

My confidence that I have the correct answer is:

- 1. 100%
- 2. 80%
- 3. 60%
- 4. 40%
- 5. 20%
- 6.0%

Response to Bilateral Signal

The response of a system G with impulse response

$$g(t) = e^{-at}\sigma(t)$$

to the input

$$u(t) = e^{at}\sigma(-t)$$

is

$$y(t) = \frac{1}{2a}e^{-at}\sigma(t) + \frac{1}{2a}e^{at}\sigma(-t)$$

My answer

- 1. Was completely correct
- Was mostly correct, with one or two minor errors
- 3. Had many errors
- 4. Was completely incorrect