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## **ECE250: Signals and Systems**

**Quiz 4 (27/09/2022)**

**Max. Marks: 10**

1. (CO2) For the following signals, use the convolution integral to find the response  $y(t)$  of the LTI system with impulse response  $h(t)$  to the input  $x(t)$ . Sketch your results.

$$x(t) = u(t) - 2u(t - 2) + u(t - 5)$$

$$h(t) = e^{2t}u(1 - t)$$