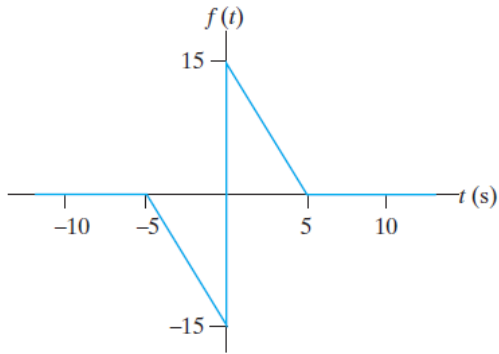


ECE222 Quiz 5

To get full credit, show all your work.

- 1) Use step functions to write the expression for the function shown below.



- 2) Show all the steps to derive the Laplace transform for the function $f(t) = t$.

- 3) Does the function $f(t) = 4\delta(t)$ have a greater amplitude than function $g(t) = 3\delta(t)$? If so, find the difference in amplitudes. Or, if not, what is the essential difference between these two functions?