

MAP 2302 WRITTEN HOMEWORK #11

Due Tuesday November 12th, in Canvas

Question 1. Let f be the piecewise function defined as follows.

$$f(t) = \begin{cases} 0 & \text{if } t < 17 \\ 1 & \text{if } t \geq 17 \end{cases}$$

Find the Laplace transform of $f(t)$ using the definition.

Question 2. Find the Laplace transform of the function $f(t) = \sin 2t \sin 5t$.
(Hint: You can use trigonometric identities, as well as Laplace transforms of known functions.)