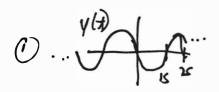
Name_ ANSWAS

EE3032 - Dr. Durant - Quiz 2 Fall 2019, Week 2

- 1. $x(t) = \sin(4\pi t)$. y(t) = x(-t).
 - a. Sketch y(t).
 - b. Which of the following symmetries does y(t) have? Even, odd. Justify your answer.
- Sketch z(t) = u(t-2) r(t-3)
- 3. $w(t) = \delta(t+2) \delta(t-3)$
 - a. Sketch w(t)
 - b. What is the area under w(t) from $-\infty$ to 0? Explain your response.
- 4. q(t) = 3u(t+4) 3u(t-4)
 - a. Sketch q(t)
 - b. Which of the following symmetries does q(t) have? Even, odd. Justify your answer.



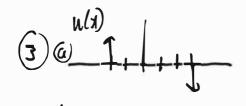
$$y(-t) \stackrel{?}{=} -y(t)$$

$$x(t) = -x(-t)$$

$$sin(4\tau t) = -5in(-4\pi t)$$

$$cand since sin is add$$





opticual: bbol areas = 1

Timpulse, not souled, $II = 5-\infty \delta(x+2) - \delta(x-3) dt$



even only for all real t $q(t)=q(-t) \forall t \in \mathbb{R}$ eg. q(2)=q(-2)=+3 $q(\pi)=q(-1)=0$