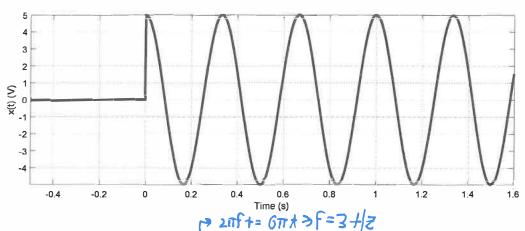
Answas Name

EE3032 - Dr. Durant - Quiz 1 Fall 2019, Week 1



- 1. (7.5 points) Given $x(t) = u(t) \cos(6\pi t)$, which is plotted in the figure above, plot the following functions. Note that u(t) is 1 for $x \ge 0$ and 0 otherwise; thus it forces the product to 0 when x < 0. So, the sinusoid continues forever off the right side of the graph.
 - f(t) = x(2t)
 - b. g(t) = x(t+1)
 - c. h(t) = x(2t-4)
- 2. (1.5 points) Which of the following functions are causal?

 a. x(t)

 x4 are causal?
- b. g(t) as you drew it
 c. h(t) as you drew it
 g is not causal same #0 for some #00, e.g. g(-1)=5

 3. (1 point) Write an expression for an anti-causal signal as a simple transformation of x(t). > Mi recore : + > t

(1)6) Contraction by 2, f increases

(b) Time delay by 15 or Time advance by 15

6) h(+)=x(2+-4)=x(2(+-2)

