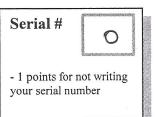
King Fahd University of Petroleum & Minerals

Electrical Engineering Department EE207: Signals and Systems (122) Dr. Ali Hussein Muqaibel

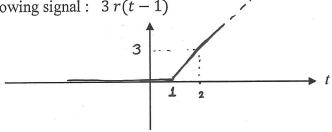


Name: KEY

ver.1

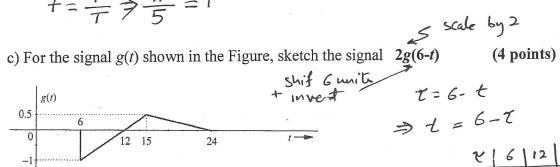
(2 points)

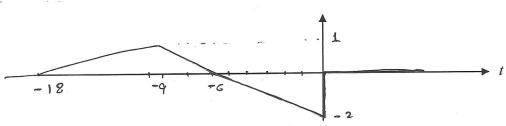
a) Sketch the following signal: 3 r(t-1)



- $4\cos(10t + \pi/4)$ b) For the following signal:
 - a. What is the fundamental frequency in Hz? $\omega = 10 \text{ rad/sec} \Rightarrow f = \frac{\omega}{2\pi} = \frac{10}{2\pi} = \frac{5}{11} + \frac{10}{3}$
 - b. What is the period?

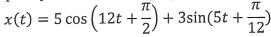
(1 point)





d) What is the frequency of the following signal?

(2 points)



 $w_1=12$, $w_2=5$, w for the sum is the greatest common factor which is 1=1 we 1=1 rad/sec or 1=1

You can also use the method in the book.