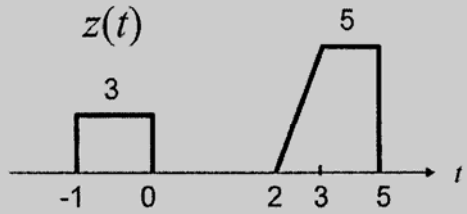
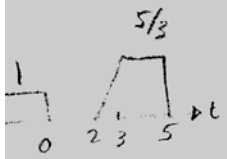
Name: Key

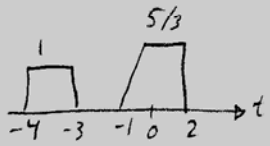
EE322 Fall 2008 Quiz 04

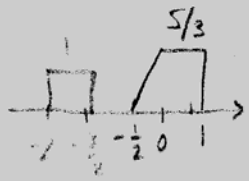
1. Given $h(t)$ shown to the right, plot $\frac{1}{3}z(-2t+3)$.

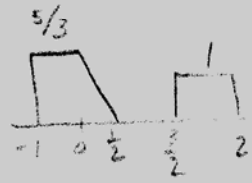


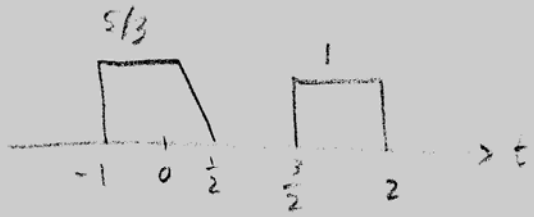
$$\frac{1}{3}z(t) \xrightarrow[t \to t+3]{} \frac{1}{3}z(t+3) \xrightarrow[t \to 2t]{} \frac{1}{3}z(2t+3) \xrightarrow[t \to -t]{} \frac{1}{3}z(-$$



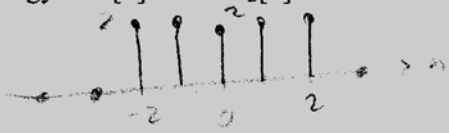








2. Calculate the energy in x[n] = 2 rect_2[n].



$E_x = 2^2 \cdot 5 = \boxed{20}$

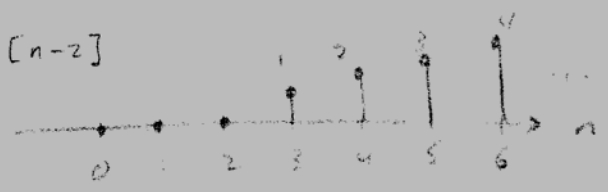
3. Calculate the average power in x(t)=5 cos(2π20t+π/3).

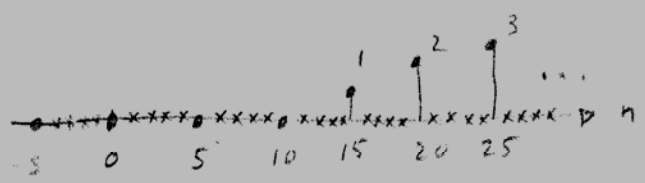
sinusoid

$$P_x = \frac{5^2}{2} = \boxed{12.5}$$

4. if x[n] = ramp[n-2], sketch a plot of x[n/5].

ramp[n-2]





Bonus: What two countries fought the Battle of Tsushima Strait in 1905, and who won?

Japan ← winner
Russia