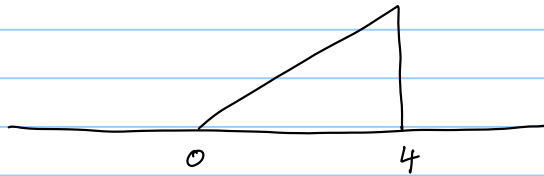


Some practice problems for Signal transformations

Note Title

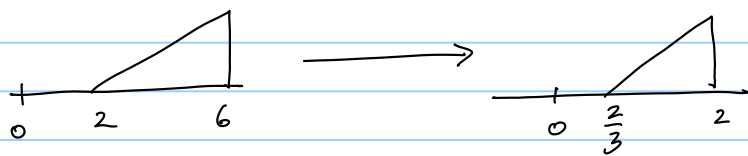
9/8/2011

Say

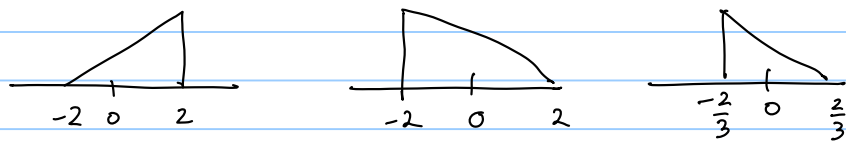


a) $x(3t-2)$ b) $x(2-3t)$ c) $x\left(\frac{3t+4}{5}\right)$

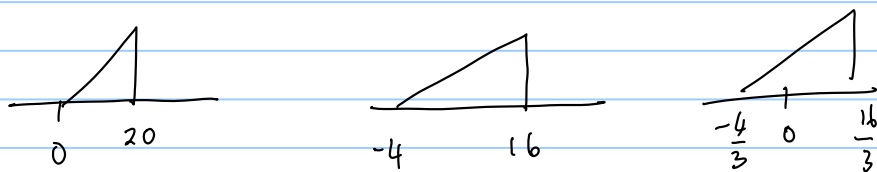
a) $x(t) \longrightarrow x(t-2) \longrightarrow x(3t-2)$



b) $x(t) \longrightarrow x(2+t) \longrightarrow x(2-t) \longrightarrow x(2-3t)$



c) $x(t) \longrightarrow x\left(\frac{t}{5}\right) \longrightarrow x\left(\frac{t+4}{5}\right) \longrightarrow x\left(\frac{3t+4}{5}\right)$

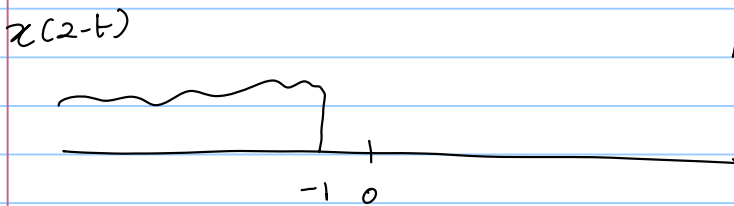
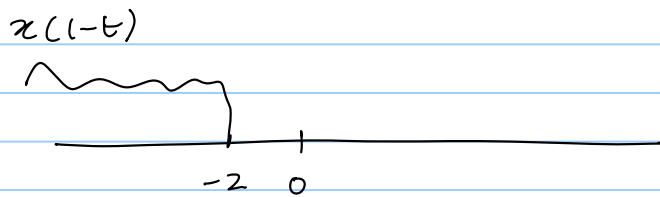
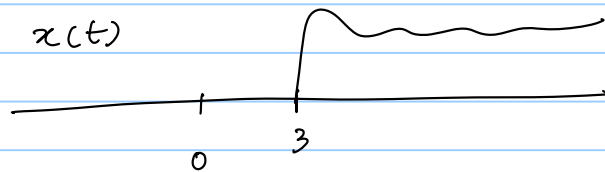


Oppenheim

1.5 $x(t)$ be a signal with $x(t) = 0$ $t < 3$

For each of these signals find the value of t s.t the signal is guaranteed to be zero

* $x(1-t) + x(2-t)$



Answer $t > -1$

* $x(1-t) x(2-t)$

Answer $t > -2$

* $x(3t)$ $t > 1$

* $x(t/3)$ $t > 9$